

HMSHE81	784966	8218	HMMER 2.1.1	PFAM: PX domain	PF00787	29.1	128	421
HMSDL70	909997	8240	blastx.14	(AF083331) kinesin-like protein KIF1B [Rattus norvegicus]	gi 3493139 gb AAC33292.1	100%	2	103
HMSBO95	796724	8258	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.61	273	302
HMMBL55	731523	8320	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	2.03	227	271
HMMAT08	959005	8327	blastx.14	DOCK180 protein [Homo sapiens]	gi 1339910 dbj BAA09454.1	49% 66%	137 310	301 426
HMCHZ77	771795	8350	HMMER 2.1.1	PFAM: Nucleoside transporter	PF01733	81.6	5	283
HMALZ77	856266	8362	HMMER 2.1.1	PFAM: Isochorismatase family	PF00857	88.5	2	232
HMAJL09	950168	8365	HMMER 1.8	PFAM: ADP-glucose pyrophosphorylase	PF00483	150.92	20	256
			blastx.14	f270 [Escherichia coli]	gi 290545 gb AAA62048.1	100% 100%	254 468	469 512
HMAIQ20	669436	8367	HMMER 1.8	PFAM: Bacterial mutT protein	PF00293	3.43	172	234
HMAIH15	956705	8368	blastx.2	Hypothetical protein MJ0456 [Escherichia coli]	dbj BAA35499.1	100%	3	203
HMAIA55	899404	8369	blastx.2	(AF027204) putative tetraspan transmembrane protein L6H [Homo sapiens]	gb AAB82947.1	35% 39%	188 601	532 789
HMAIDF74	944465	8377	HMMER 2.1.1	PFAM: Leucine Rich Repeat	PF00560	42.8	369	440

				blastx.2	leucine-rich repeat protein [Arabidopsis thaliana]	emb CAA76000.1	34%	294	674
HMACV54	922354	8379		HMMER 2.1.1	PFAM: Aldose 1- epimerase	PF01263	116	418	176
HMABD66	388074	8381		HMMER 2.1.1	PFAM: 60Kd inner membrane protein	PF02096	59.8	222	365
HLYHK61	932994	8386		blastx.14	GTP binding protein [Mus musculus]	gi 53169 emb CAA36 803.1	88% 95% 96% 82% 90%	133 489 33 723 398	420 686 131 809 487
HLYHK34	703776	8387		HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	13.18	436	519
HLYGQ11	966539	8401		HMMER 1.8	PFAM: RNA recognition motif. (aka RRM, RBD, or RNP domain)	PF00076	4.45	96	134
HLYEA70	943886	8431		HMMER 2.1.1	PFAM: Dihydrodipicolinate synthetase family	PF00701	22.8	304	408
HLYCF37	949401	8459		HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	12.84	1249	1326
HLYBX91	790234	8463		HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	3.14	710	754
HLMHL66	910804	8555		HMMER 2.1.1	PFAM: Fibrinogen beta and gamma chains, C- terminal globular domain	PF00147	40.5	157	252
				blastx.14	(AF107253) angiopoietin Y1 [Homo sapiens]	gi 4378598 gb AAD1 9608.1	65% 72% 30%	157 333 41	252 365 100
HLFDA67	887375	8581		HMMER	PFAM: BTB/POZ domain	PF00651	101.9	160	504

HJPAY56	909242	8600	2.1.1	PFAM: Zinc finger, C2H2 type	PF00096	39.9	78	146
			HMNER 2.1.1	(AC004076) R30217_1 [Homo sapiens]	gb AAB97932.1	62%	3	212
			blastx.2			64%	3	206
						59%	3	200
						54%	3	206
						56%	6	206
						47%	9	212
						42%	3	233
						43%	18	212
						49%	3	191
						40%	21	212
						38%	3	206
						43%	21	191
						40%	3	212
						43%	12	212
						42%	3	149
						42%	3	149
						48%	6	161
						37%	69	212
						36%	3	149
						39%	166	234
						47%	172	234
						38%	172	234
						33%	172	234
						44%	181	234
						50%	181	234
						55%	181	234
						25%	154	234
						50%	181	234

HJPA60	586675	8604	HMMER 2.1.1	PFAM: Adenosine/AMP deaminase	PF00962	77%	208	234
						44%	181	234
HJBCZ05	925805	8611	HMMER 1.8	PFAM: TPR Domain	PF00515	55%	208	234
			blastx.14	(AF132856) suppressor of G2 allele of skp1 homolog [Homo sapiens]	gi 4809026 gb AAD3 0062.1	46%	190	234
						78.6	96	533
HHEZO92	942859	8638	HMMER 2.1.1	PFAM: tRNA synthetase class II (G, H, P, S and T)	PF00587	12.67	205	291
			blastx.14	(AC002131) Similar to seryl-tRNA synthetase 1 [Arabidopsis thaliana]	gi 3157938 gb AAC1 7621.1	88%	520	840
						98%	85	357
HHEWX06	933879	8643	blastx.14	ORF 3 [Rattus norvegicus]	gi 57053 emb CAA29 033.1	58%	251	66
HHEPG59	925436	8681	blastx.14	IP63 protein [Rattus norvegicus]	gi 2764951 emb CAA 67705.1	52%	541	440
						50%	346	257
HHEMG02	917366	8704	blastx.14	similar to NIFS protein (nitrogen fixation) [Caenorhabditis elegans]	gi 722379 gb AAC46 685.1	67%	525	608
						56%	441	488
HHELA35	878217	8711	HMMER 2.1.1	PFAM: Beta-lactamase	PF00144	53%	641	685
HHEKZ12	878267	8712	HMMER 1.8	PFAM: Beta-lactamases	PF00144	175.4	118	450
						132.1	102	380
HHEAJ78	773538	8739	HMMER	PFAM: Helicases	PF00271	3.92	2	82

			1.8	conserved C-terminal domain				
HHEAA02	932265	8743	blastx.14	The ha1438 gene product is related to a C728 protein 1	gi 559715 dbj BAA07556.1	87% 60% 88% 100% 100% 88% 58% 57% 25%	53 35 519 563 491 441 567 448 41	445 103 569 592 517 467 617 489 160
HFSAG03	960973	8761	HMMER 1.8	PFAM: Helicases conserved C-terminal domain	PF00271	6.39	454	365
HEOOA49	942561	8765	HMMER 2.1.1 blastx.2	PFAM: FAD binding domain Aip2p [Saccharomyces cerevisiae]	PF01565 gb AAA79142.1	115.8 73% 50% 42%	1 343 549	201 252 549 626
HEONO59	741361	8768	HMMER 2.1.1 blastx.2	PFAM: Fibronectin type III domain (AF117210) host cell factor 2 [Homo sapiens]	PF00041 gb AAD27814.1 AF117210_1	39.4 99% 97% 97%	508 331 23 707	582 702 253 847
HEONL09	961147	8771	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	9.17	96	152
HEOMX01	913683	8778	blastx.14	alpha-3 type IX collagen [Homo sapiens]	gi 1196421 gb AAC41947.1	40% 36% 31% 27% 32%	349 328 325 316 331	480 468 468 513 468

								34%	328	468
								61%	241	279
								35%	328	411
								41%	337	408
								77%	241	267
								63%	241	273
								58%	244	279
								66%	306	332
								35%	185	244
								28%	394	468
HDTJF05	931977	8804	blastx.14	polyprotein [Hepatitis C virus]	gi 464178 dbj BAA03581.1			53%	394	438
								47%	168	218
								50%	49	90
								60%	208	237
								75%	258	281
HDTIO74	933606	8805	blastx.14	(AL021749) protein phosphatase 2C-like protein [Arabidopsis thaliana]	gi 2842482 emb CAA16879.1			45%	148	5
HDTIO16	934151	8806	HMMER 2.1.1	PFAM: WD domain, G-beta repeat	PF00400			117.6	164	283
			blastx.14	(AF072880) SOCS box-containing WD protein SWiP-1 [Homo sapiens]	gi 4754060 gb AAD28808.1 AF072880_1			99%	2	613
								85%	610	672
								70%	686	715
HDTDP02	919572	8831	blastx.14	(AF151872) CGI-114 protein [Homo sapiens]	gi 4929697 gb AAD34109.1 AF151872_1			76%	135	212
HDTDD72	587710	8836	HMMER 1.8	PFAM: ATP synthase A chain	PF00119			85.33	165	350
HDTDB37	587699	8844	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099			2.43	201	218
HDTCC55	934923	8846	blastx.14	(AL117483) hypothetical	gi 5911963 emb CAB			46%	306	389

				protein [Homo sapiens]	55956.1]		46%	453	542
HDTBD67	899636	8860	HMMER 1.8	PFAM: Laminin G domain	PF00054		35%	4	105
HDTBD67	902517	9731	HMMER 1.8	PFAM: Laminin G domain	PF00054		42%	105	167
HDTAA31	937609	8871	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125		53.09	615	1004
HDTAA31	941948	9732	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125		53.23	278	667
HDPXN01	915919	8899	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099		12.8	1331	1408
HDPUN39	957580	8916	HMMER 2.1.1	PFAM: HECT-domain (ubiquitin-transferase).	PF00632		12.8	1331	1408
			blastx.14	hypothetical protein 2 - human (fragment)	pir B38919 B38919		4.29	99	146
HDPBSB10	961309	8928	HMMER 2.1.1	PFAM: Zinc finger, C2H2 type	PF00096		197.8	1783	1067
			blastx.2	(AF091457) zinc finger protein RIN ZF [Rattus norvegicus]	gb AAD22522.1 AF0 91457_1		66%	1723	1070
							32.9	67	135
							61%	1	252
HDPRR24	914667	8932	blastx.14	(AF086837) snapin [Homo sapiens]	gi 4206088 gb AAD1 1417.1]		98%	144	410
HDP RJ04	909040	8934	HMMER 2.1.1	PFAM: Zinc finger, C2H2 type	PF00096		52.4	192	263
			blastx.2	zinc finger protein ZNF132 [Homo sapiens]	gb AAC50252.1]		40%	12	377
							36%	12	377
							46%	335	553
							47%	335	553

					47%	335	538
					35%	18	377
					34%	12	377
					41%	335	574
					34%	12	377
					38%	335	574
					31%	12	377
					44%	335	538
					28%	12	377
					43%	335	553
					30%	12	377
					37%	335	574
					31%	12	377
					41%	335	553
					31%	12	377
					49%	380	538
					36%	326	556
					28%	12	377
					30%	39	371
					36%	335	553
					35%	380	571
					37%	335	517
					27%	12	377
					34%	380	553
					33%	380	538
					26%	93	371
					33%	51	194
					36%	513	611
					50%	570	611
					30%	534	611
					69%	573	611

HDPQI68	955006	8939	blastx.14	(AC007258) Putative ATPase [Arabidopsis thaliana]	gi 5080816 gb AAD39325.1 AC007258_14	30%	534	611
							573	611
							573	611
							582	611
							513	599
							303	365
							513	611
							292	354
							573	611
							327	371
HDPQF03	923120	8941	blastx.14	mitogen-activated protein kinase kinase (EC 2.7.-.-) 1	pir JE0363 JE0363	85%	700	83
							771	700
							803	774
							823	788
HDPLT62	973945	8959	HMMER 1.8	PFAM: Neurotransmitter-gated ion-channel	PF00065	102.12	417	746
			blastx	GABA receptor rho-3 subunit precursor [Rattus norvegicus]	dbj BAA09322.1	78% 92%	414 262	797 411
HDPGS45	921381	8989	blastx.14	(AC004893) similar to NEDD-4 (K1A0093); similar to P46934 (PID:g1171682) [Homo sapiens]	gi 3694664 gb AAC62434.1	87%	366	226
			HMMER	PFAM: Protein kinase C	PF00433	57.51	287	445

			1.8	terminal domain				
			blastx.2	(AJ245709) Akt-3 protein [Homo sapiens]	emb CAB53537.1	100%	236	460
HDPFZ70	709684	9003	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	100%	3	116
HDPFB03	936331	9015	blastx.14	(AF043726) PHD-finger protein [Mus musculus]	gi 4529845 gb AAD2 1792.1	13.5	662	745
HDPDD12	970592	9017	blastx.14	(AF000998) CLOCK [Mus musculus]	gi 2114488 gb AAC5 3200.1	38%	284	370
HDPCM62	454740	9031	HMMER 1.8	PFAM: Laminin B (Domain IV)	PF00052	86%	152	208
HCWKR86	784705	9089	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.03	296	340
HCWFA35	908820	9114	HMMER 1.8	PFAM: DnaI, prokaryotic heat shock protein	PF00226	2.26	80	274
			blastx.14	Curved DNA-binding protein cbpA [Escherichia coli]	gi 1651491 dbj BAA3 6142.1	116.61	68	364
HCUGN19	716989	9181	HMMER 1.8	PFAM: Alcohol/other dehydrogenases, short chain type	PF00106	98%	98	151
HCUGL20	668913	9184	HMMER 1.8	PFAM: Ank repeat	PF00023	8.05	190	261
HCFNG10	848225	9310	HMMER 1.8	PFAM: HMG (high mobility group) box	PF00505	7.2	305	376
HCFMZ90	922112	9315	HMMER 1.8	PFAM: Beta-ketoacyl synthases	PF00109	6.03	291	872
			blastx.14	(AF021234) 3-oxoacyl- [acyl-carrier-protein]- synthase [Neurospora]	gi 2522482 gb AAB8 1078.1	194.57	465	824
						57%	255	494
						56%	91	306
						41%		

HCFMW71	920506	9316	HMMER 2.1.1	crassa] PFAM: Isopentenyl- diphosphate delta- isomerase	PF01772	55.5	198	362
HCFMJ37	955281	9321	blastx.14	homologue of yeast IPP isomerase [Homo sapiens]	gi 488750 emb CAA3 4890.1	42%	198	407
			blastx.2	(AF161445) HSPC327 [Homo sapiens]	gb AAF29005.1 AF1 61445_1	62% 89% 95% 100%	95 203 18 610	199 610 83 654
HCFCG23	850426	9337	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	10.89	179	244
HBTAE84	781946	9355	HMMER 1.8	PFAM: ATPases associated with various cellular activities (AAA)	PF00004	20.81	122	232
HBM TB85	923730	9390	blastx.14	(AF093403) 2-amino-3- kctobutyrate-coenzyme A ligase [Mus musculus]	gi 4093159 gb AAC9 9774.1	93% 100% 100%	3 261 217	182 317 258
HBM BF89	912789	9415	blastx.14	Rab24 protein [Mus musculus]	gi 438164 emb CAA8 0472.1	95% 89%	287 96	412 152
HB JNB52	726475	9423	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	3.77	193	252
HB JLR37	849633	9437	HMMER 2.1.1	PFAM: Ribosomal protein S26e	PF01283	232.2	2	325
HB JLR31	900883	9438	HMMER 2.1.1	PFAM: Zinc finger, C2H2 type	PF00096	90	798	866
HB JX53	835733	9452	blastx.2	(AF185576) POZ/zinc finger transcription factor ODA-8 [Mus musculus]	gb AAF03152.1 AF1 85576_1	68% 33% 36%	606 618 66	953 893 185
			HMMER	PFAM: IG	PF00047	9.2	157	207

			1.8	(immunoglobulin) superfamily					
			blastx.2	(AF161081) activatory receptor PIR1beta [Homo sapiens]	gb AAD52965.1 AF1 61081_1	90% 73%	157 215	216 283	
HBJJT12	894345	9453	HMMER 2.1.1	PFAM: Homeobox domain	PF00046	64	201	371	
HBJJH60	930448	9461	HMMER 1.8	PFAM: Laminin B (Domain IV)	PF00052	1.57	181	204	
HBJHX73	971377	9466	HMMER 1.8	PFAM: Laminin G domain	PF00054	13.48	931	1005	
			blastx.14	contactin associated protein [Homo sapiens]	gi 1857708 gb AAB4 8481.1	50% 59% 33% 42% 43%	451 880 349 985 916	876 975 447 1041 963	
HBJGT03	923800	9472	HMMER 1.8	PFAM: Cyclic nucleotide- binding domain	PF00027	8.96	41	100	
HBJFC23	423885	9484	HMMER 2.1.1	PFAM: WD domain, G- beta repeat	PF00400	32.1	135	251	
HBJAB15	660552	9522	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	2.72	145	171	
HBDAD64	864344	9524	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	3.09	423	443	
HBCJ05	930956	9527	blastx.14	(AF164612) Gag protein [Homo sapiens]	gi 5802816 gb AAD5 1794.1 AF164612_1	48% 47%	444 536	277 486	
HBCBN51	952057	9532	HMMER 2.1.1	PFAM: alpha/beta hydrolase fold	PF00561	43.4	358	564	
			blastx.14	similar to alpha/beta	gi 3878848 emb CAB	40%	741	1007	

	hydrolyase fold; cDNA EST 1	03219.1	58%	358	429
			57%	7	69
			62%	478	525
			45%	658	717
			54%	541	573

[053] Table 2 further characterizes certain encoded polypeptides of the invention, by providing the results of comparisons to protein and protein family databases. The first column provides a unique clone identifier, "Clone ID NO:", corresponding to a cDNA clone disclosed in Table 1A. The second column provides the unique contig identifier, "Contig ID:" which allows correlation with the information in Table 1A. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the row was determined. The fifth column provides a description of PFam/NR hits having significant matches identified by each analysis. Column six provides the accession number of the PFam/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Comparisons were made between polypeptides encoded by polynucleotides of the invention and a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFam"), as described below.

[054] The NR database, which comprises the NBRF PIR database, the NCBI GenPept database, and the SIB SwissProt and TrEMBL databases, was made non-redundant using the computer program nrdb2 (Warren Gish, Washington University in Saint Louis). Each of the polynucleotides shown in Table 1A, column 3 (e.g., SEQ ID NO:X or the 'Query' sequence) was used to search against the NR database. The computer program BLASTX was used to compare a 6-frame translation of the Query sequence to the NR database (for information about the BLASTX algorithm please see Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)). A description of the sequence that is most similar to the Query sequence (the highest scoring 'Subject') is shown in column five of Table 2 and the database accession number for that sequence is provided in column six. The highest scoring 'Subject' is reported in Table 2 if (a) the estimated probability that the match occurred by chance alone is less than $1.0e-07$, and (b) the match was not to a known repetitive element. BLASTX returns alignments of short polypeptide segments of the Query and Subject sequences which share a high degree of similarity; these segments are known as High-Scoring Segment Pairs or HSPs. Table 2 reports the degree of similarity between the Query and the Subject for each HSP as a percent identity in Column 7. The percent

identity is determined by dividing the number of exact matches between the two aligned sequences in the HSP, dividing by the number of Query amino acids in the HSP and multiplying by 100. The polynucleotides of SEQ ID NO:X which encode the polypeptide sequence that generates an HSP are delineated by columns 8 and 9 of Table 2.

[055] The PFam database, PFam version 5.2, (Sonnhammer et al., Nucl. Acids Res., 26:320-322, (1998)) consists of a series of multiple sequence alignments; one alignment for each protein family. Each multiple sequence alignment is converted into a probability model called a Hidden Markov Model, or HMM, that represents the position-specific variation among the sequences that make up the multiple sequence alignment (see, e.g., R. Durbin et al., *Biological sequence analysis: probabilistic models of proteins and nucleic acids*, Cambridge University Press, 1998 for the theory of HMMs). The program HMMER version 1.8 (Sean Eddy, Washington University in Saint Louis) was used to compare the predicted protein sequence for each Query sequence (SEQ ID NO:Y in Table 1A) to each of the HMMs derived from PFam version 5.2. A HMM derived from PFam version 5.2 was said to be a significant match to a polypeptide of the invention if the score returned by HMMER 1.8 was greater than 0.8 times the HMMER 1.8 score obtained with the most distantly related known member of that protein family. The description of the PFam family which shares a significant match with a polypeptide of the invention is listed in column 5 of Table 2, and the database accession number of the PFam hit is provided in column 6. Column 7 provides the score returned by HMMER version 1.8 for the alignment. Columns 8 and 9 delineate the polynucleotides of SEQ ID NO:X which encode the polypeptide sequence which shows a significant match to a PFam protein family.

[056] As mentioned, columns 8 and 9 in Table 2, "NT From" and "NT To", delineate the polynucleotides of "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFam/NR database as disclosed in the fifth column of Table 2. In one embodiment, the invention provides a protein comprising, or alternatively consisting of, a polypeptide encoded by the polynucleotides of SEQ ID NO:X delineated in columns 8 and 9 of Table 2. Also provided are polynucleotides encoding such proteins, and the complementary strand thereto.

[057] The nucleotide sequence SEQ ID NO:X and the translated SEQ ID NO:Y are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, the nucleotide sequences of SEQ ID NO:X are useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in Clone ID NO:Z. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling immediate applications in chromosome mapping, linkage analysis, tissue identification and/or typing, and a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used to generate antibodies which bind specifically to these polypeptides, or fragments thereof, and/or to the polypeptides encoded by the cDNA clones identified in, for example, Table 1A.

[058] Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).

[059] Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and a predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing cDNA Clone ID NO:Z (deposited with the ATCC on October 5, 2000, and receiving ATCC designation numbers PTA 2574 and PTA 2575; deposited with the ATCC on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2; and/or as set forth, for example, in Table 1A, 6 and 7). The nucleotide sequence of each deposited clone can readily be determined by sequencing the deposited clone in accordance with known methods. Further, techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X.

[060] The predicted amino acid sequence can then be verified from such deposits. Moreover, the amino acid sequence of the protein encoded by a particular clone can also be directly determined by peptide sequencing or by expressing the protein in a suitable host cell containing the deposited human cDNA, collecting the protein, and determining its sequence.

RACE Protocol For Recovery of Full-Length Genes

[061] Partial cDNA clones can be made full-length by utilizing the rapid amplification of cDNA ends (RACE) procedure described in Frohman, M.A., et al., Proc. Nat'l. Acad. Sci. USA, 85:8998-9002 (1988). A cDNA clone missing either the 5' or 3' end can be reconstructed to include the absent base pairs extending to the translational start or stop codon, respectively. In some cases, cDNAs are missing the start codon of translation. The following briefly describes a modification of this original 5' RACE procedure. Poly A⁺ or total RNA is reverse transcribed with Superscript II (Gibco/BRL) and an antisense or complementary primer specific to the cDNA sequence. The primer is removed from the reaction with a Microcon Concentrator (Amicon). The first-strand cDNA is then tailed with dATP and terminal deoxynucleotide transferase (Gibco/BRL). Thus, an anchor sequence is produced which is needed for PCR amplification. The second strand is synthesized from the dA-tail in PCR buffer, Taq DNA polymerase (Perkin-Elmer Cetus), an oligo-dT primer containing three adjacent restriction sites (XhoI, SalI and ClaI) at the 5' end and a primer containing just these restriction sites. This double-stranded cDNA is PCR amplified for 40 cycles with the same primers as well as a nested cDNA-specific antisense primer. The PCR products are size-separated on an ethidium bromide-agarose gel and the region of gel containing cDNA products the predicted size of missing protein-coding DNA is removed. cDNA is purified from the agarose with the Magic PCR Prep kit (Promega), restriction digested with XhoI or SalI, and ligated to a plasmid such as pBluescript SKII (Stratagene) at XhoI and EcoRV sites. This DNA is transformed into bacteria and the plasmid clones sequenced to identify the correct protein-coding inserts. Correct 5' ends are confirmed by comparing this sequence with the putatively identified homologue and overlap with the partial cDNA clone. Similar methods known in the art and/or commercial kits are used to amplify and recover 3' ends.

[062] Several quality-controlled kits are commercially available for purchase. Similar reagents and methods to those above are supplied in kit form from Gibco/BRL for both 5' and 3' RACE for recovery of full length genes. A second kit is available from Clontech which is a modification of a related technique, SLIC (single-stranded ligation to single-stranded cDNA), developed by Dumas et al., *Nucleic Acids Res.*, 19:5227-32 (1991). The major differences in procedure are that the RNA is alkaline hydrolyzed after reverse transcription and RNA ligase is used to join a restriction site-containing anchor primer to the first-strand cDNA. This obviates the necessity for the dA-tailing reaction which results in a polyT stretch that is difficult to sequence past.

[063] An alternative to generating 5' or 3' cDNA from RNA is to use cDNA library double-stranded DNA. An asymmetric PCR-amplified antisense cDNA strand is synthesized with an antisense cDNA-specific primer and a plasmid-anchored primer. These primers are removed and a symmetric PCR reaction is performed with a nested cDNA-specific antisense primer and the plasmid-anchored primer.

RNA Ligase Protocol For Generating The 5' or 3' End Sequences To Obtain Full Length Genes

[064] Once a gene of interest is identified, several methods are available for the identification of the 5' or 3' portions of the gene which may not be present in the original cDNA plasmid. These methods include, but are not limited to, filter probing, clone enrichment using specific probes and protocols similar and identical to 5' and 3' RACE. While the full length gene may be present in the library and can be identified by probing, a useful method for generating the 5' or 3' end is to use the existing sequence information from the original cDNA to generate the missing information. A method similar to 5' RACE is available for generating the missing 5' end of a desired full-length gene. (This method was published by Fromont-Racine et al., *Nucleic Acids Res.*, 21(7):1683-1684 (1993)). Briefly, a specific RNA oligonucleotide is ligated to the 5' ends of a population of RNA presumably containing full-length gene RNA transcript. A primer set containing a primer specific to the ligated RNA oligonucleotide and a primer specific to a known sequence of the gene of interest, is used to PCR amplify the 5' portion of the desired full length gene which may then be sequenced and used to generate the full length gene. This method starts with total RNA isolated from the desired source, poly A RNA may be

used but is not a prerequisite for this procedure. The RNA preparation may then be treated with phosphatase if necessary to eliminate 5' phosphate groups on degraded or damaged RNA which may interfere with the later RNA ligase step. The phosphatase, if used, is then inactivated and the RNA is treated with tobacco acid pyrophosphatase in order to remove the cap structure present at the 5' ends of messenger RNAs. This reaction leaves a 5' phosphate group at the 5' end of the cap cleaved RNA which can then be ligated to an RNA oligonucleotide using T4 RNA ligase. This modified RNA preparation can then be used as a template for first strand cDNA synthesis using a gene specific oligonucleotide. The first strand synthesis reaction can then be used as a template for PCR amplification of the desired 5' end using a primer specific to the ligated RNA oligonucleotide and a primer specific to the known sequence of the immune/hematopoietic antigen of interest. The resultant product is then sequenced and analyzed to confirm that the 5' end sequence belongs to the relevant immune/hematopoietic antigen.

[065] The present invention also relates to vectors or plasmids which include such DNA sequences, as well as the use of the DNA sequences. The material deposited with the ATCC (deposited with the ATCC on October 5, 2000, and receiving ATCC designation numbers PTA 2574 and PTA 2575; deposited with the ATCC on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2; and/or as set forth, for example, in Table 1A, 6 and 7) is a mixture of cDNA clones derived from a variety of human tissue and cloned in either a plasmid vector or a phage vector, as shown, for example, in Table 7. These deposits are referred to as "the deposits" herein. The tissues from which some of the clones were derived are listed in Table 7, and the vector in which the corresponding cDNA is contained is also indicated in Table 7. The deposited material includes cDNA clones corresponding to SEQ ID NO:X described, for example, in Table 1A (Clone ID NO:Z). A clone which is isolatable from the ATCC Deposits by use of a sequence listed as SEQ ID NO:X, may include the entire coding region of a human gene or in other cases such clone may include a substantial portion of the coding region of a human gene. Furthermore, although the sequence listing may in some instances list only a portion of the DNA sequence in a clone included in the ATCC Deposits, it is well within the ability of one skilled in the art to sequence the DNA included in a clone contained in the ATCC Deposits by use of a sequence (or portion

thereof) described in, for example Tables 1A or 2 by procedures hereinafter further described, and others apparent to those skilled in the art.

[066] Also provided in Table 7 is the name of the vector which contains the cDNA clone. Each vector is routinely used in the art. The following additional information is provided for convenience.

[067] Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128,256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., *Nucleic Acids Res.* 16:7583-7600 (1988); Alting-Mees, M. A. and Short, J. M., *Nucleic Acids Res.* 17:9494 (1989)) and pBK (Alting-Mees, M. A. et al., *Strategies* 5:58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc., 11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains a neomycin resistance gene. Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into *E. coli* strain XL-1 Blue, also available from Stratagene.

[068] Vectors pSport1, pCMVSPORT 1.0, pCMVSPORT 2.0 and pCMVSPORT 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, also available from Life Technologies. See, for instance, Grüber, C. E., et al., *Focus* 15:59- (1993). Vector lacmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance gene and can be transformed into *E. coli* strain XL-1 Blue. Vector pCR[®]2.1, which is available from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., *Nuc. Acids Res.* 16:9677-9686 (1988) and Mead, D. et al., *Bio/Technology* 9: (1991).

[069] The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or the deposited clone (Clone ID NO:Z). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include preparing probes or primers from the disclosed

sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

[070] Also provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of immune/hematopoietic associated genes corresponding to SEQ ID NO:X or the complement thereof, polypeptides encoded by SEQ ID NO:X or the complement thereof, and/or the cDNA contained in Clone ID NO:Z, using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.

[071] The polypeptides of the invention can be prepared in any suitable manner. Such polypeptides include isolated naturally occurring polypeptides, recombinantly produced polypeptides, synthetically produced polypeptides, or polypeptides produced by a combination of these methods. Means for preparing such polypeptides are well understood in the art.

[072] The polypeptides may be in the form of the secreted protein, including the mature form, or may be a part of a larger protein, such as a fusion protein (see below). It is often advantageous to include an additional amino acid sequence which contains secretory or leader sequences, pro-sequences, sequences which aid in purification, such as multiple histidine residues, or an additional sequence for stability during recombinant production.

[073] The polypeptides of the present invention are preferably provided in an isolated form, and preferably are substantially purified. A recombinantly produced version of a polypeptide, including the secreted polypeptide, can be substantially purified using techniques described herein or otherwise known in the art, such as, for example, by the one-step method described in Smith and Johnson, *Gene* 67:31-40 (1988). Polypeptides of the invention also can be purified from natural, synthetic or recombinant sources using techniques described herein or otherwise known in the art, such as, for example, antibodies of the invention raised against the immune/hematopoietic polypeptides of the present invention in methods which are well known in the art.

[074] The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA sequence contained in Clone ID NO:Z. The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X or a complement thereof, a polypeptide encoded by the cDNA contained in Clone ID NO:Z, and/or the polypeptide sequence encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B. Polynucleotides encoding a polypeptide comprising, or alternatively consisting of the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, a polypeptide encoded by the cDNA contained in Clone ID NO:Z and/or a polypeptide sequence encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of, the complement of the nucleic acid sequence of SEQ ID NO:X, a nucleic acid sequence encoding a polypeptide encoded by the complement of the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA contained in Clone ID NO:Z.

[075] Moreover, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in Table 1B column 6, or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in Table 1B column 6, or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic

acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[076] Further, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[077] Further, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifier SEQ ID NO:X (see Table 1B, column 2), or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifier SEQ ID NO:X (see Table 1B, column 2), or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifier SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifier SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifier SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (See Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[078] Moreover, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in the same row of Table 1B column 6, or any combination thereof. Additional, representative examples of polynucleotides of the

invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1B column 6, or any combination thereof. In preferred embodiments, the polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1B column 6, wherein sequentially delineated sequences in the table (i.e. corresponding to those exons located closest to each other) are directly contiguous in a 5' to 3' orientation. In further embodiments, above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[079] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B, and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1B, column 2) or fragments or variants thereof. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[080] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to

the same Clone ID NO:Z (see Table 1B, column 1), and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ ID NO:X correspond to the same Clone ID NO:Z. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[081] In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in the same row of column 6 of Table 1B, and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ ID NO:X correspond to the same row of column 6 of Table 1B. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[082] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of the sequence of SEQ ID NO:X are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[083] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower

stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[084] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[085] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides, are also encompassed by the invention.

[086] In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10

polynucleotides of another sequence in column 6 are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[087] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 corresponding to the same Clone ID NO:Z (see Table 1B, column 1) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[088] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one sequence in column 6 corresponding to the same contig sequence identifier SEQ ID NO:X (see Table 1B, column 2) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[089] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of

one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 corresponding to the same row are directly contiguous. In preferred embodiments, the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B is directly contiguous with the 5' 10 polynucleotides of the next sequential exon delineated in Table 1B, column 6. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[090] Many polynucleotide sequences, such as EST sequences, are publicly available and accessible through sequence databases and may have been publicly available prior to conception of the present invention. Preferably, such related polynucleotides are specifically excluded from the scope of the present invention. Accordingly, for each contig sequence (SEQ ID NO:X) listed in the third column of Table 1A, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, b is an integer of 15 to the final nucleotide of SEQ ID NO:X, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. More specifically, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b; where a and b are integers as defined in columns 4 and 5, respectively, of Table 3. In specific embodiments, the polynucleotides of the invention do not consist of at least one, two, three, four, five, ten, or more of the specific polynucleotide sequences referenced by the Genbank Accession No. as disclosed in column 6 of Table 3 (including for example, published sequence in connection with a particular BAC clone). In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table (including for

example, the actual sequence contained in an identified BAC clone). In no way is this listing meant to encompass all of the sequences which may be excluded by the general formula, it is just a representative example. All references available through these accessions are hereby incorporated by reference in their entirety.

TABLE 3

Clone ID NO: Z	SEQ ID NO: X	Contig ID:	EST Disclaimer		Accession #'s
			Range of a	Range of b	
HAMHB21	11	961376	1 - 3744	15 - 3758	AI760827, AW408019, AI253155, AI349366, AI356482, AA814034, AW075920, AW407984, AI760691, AA251937, AI766650, AA352825, AA243541, AI934100, AA352840, H72208, H72106, AW193021, AL035530, AL035530, and AL035530.
HASAX16	12	573692	1 - 305	15 - 319	AL356513, AL356513, AL358796, and AL358796.
HASAY74	13	526312	1 - 375	15 - 389	AC006479, AC006479, AC006479, and AC006479.
HASAY89	14	958768	1 - 849	15 - 863	AI240823, AC012580, AC012580, AC012580, AL133502, and AL133502.
HASAY94	15	521835	1 - 89	15 - 103	AL133216, AC024998, AC024998, AL365438, AL365438, AL390122, AL133216, AL133216, AL133216, AC022702, AC022702, AC025796, AC025796, AF198096, AF198096, and AF198096.
HBCAL36	16	931477	1 - 553	15 - 567	AI908374.
HBCAL39	17	964871	1 - 587	15 - 601	AL117337, AF205588, AL022345, AL022345, AL161931, AL161931, AL161931, AL354975, AL354975, AL355583, AL355583, AL355583, AL023808, AL023808, AF205588, AF205588, AF205588, AL117337, AL117337, and AL117337.
HBCAM74	18	864366	1 - 437	15 - 451	AA642815.
HBCAR79	19	573989	1 - 415	15 - 429	AC021215.
HBCAS69	20	669802	1 - 274	15 - 288	
HBCAT17	21	503573	1 - 385	15 - 399	AI150061, AA382210, AC011448, and AC011448.
HBCAT63	22	573993	1 - 224	15 - 238	AI114447, AL133243, AL133243, AL133243, and AL133243.
HBCBM52	23	932514	1 - 657	15 - 671	AA312172.
HBCBX12	24	861018	1 - 219	15 - 233	AB023431, AC005954, AC005954, AC005954, and AC068475.
HBCBZ05	25	922800	1 - 713	15 - 727	
HBDAC79	26	935414	1 - 612	15 - 626	AA904376, H23157, AA663798, AA359944, AA448036, R61429, H09004, AA309011, AF126245, AP001785, and AP001785.
HBDAD04	27	614849	1 - 375	15 - 389	AI057188, AW273323, C15735, AI932257, AI028587, AI940493, AW043720, AW021811, AA858079, AW197210, AI791278, AA508647, C15853, AA181800, AW043729, AW008982, AI918922, AI985340, AA031428, AA282285, AC007392, Z82198, AL031121, AL121840, L24095, AC004882, AC005529, AC002070, AC008984, AL132985, AL049781, Z72006, AC005881, AL079305, AP000263, AC005888, AC003080, AC004935, AL035667, AC005610, AP000036, AC005186, AC004842, AL035696, AC003661, AC004503, AC009263, AL023581, AC003009, U41096, AL021368, AP000567, AC004933, AC003975, AP000494, AL008638, AF015262, AL049833, AL034350, AL031010, AJ229043, AP001069, AC006288, AL049561, AL024507, AC005701, AP000100, AC005792, AP000566, AL023283, AC011594, AC006377, and AL023283.

HBDAF51	28	725481	1 - 496			AL031684, AC008014, AP001038, AF064864, AP001037, AF165176, AC005993, AP001043, AL078602, AC007073, AL133512, AC005367, AC007751, AC004850, AC006928, AC009028, Z83823, AC003089, AL008715, AC007372, AL049837, AL078612, AF124730, AC006032, AF207955, AC008154, AL021395, AC005076, AC005886, AC008072, AC005036, AC004783, AC004002, AC006256, AL133485, AC006353, AC002485, AF205890, AC004106, AC004169, Z74696, AC006263, AC006384, AC006972, AL031767, AC006368, AC004158, and Z95152.
HBDAF61	29	864338	1 - 794			N47629.
HBAB59	30	557972	1 - 425			AC003963.
HBAC23	31	529753	1 - 234			
HBAG72	32	722723	1 - 504			AA313748, AC008013, AC006432, and Z61963.
HBIAI91	33	677397	1 - 307			
HBIAJ75	34	953840	1 - 301			AL133163.
HBIAJ85	35	675904	1 - 105			AC002450.
HBIAV57	36	527998	1 - 387			AC004976.
HBIAV76	37	527908	1 - 286			
HBIAV91	38	828026	1 - 276			
HBIBM14	39	781398	1 - 306			
HBIBR94	40	527903	1 - 331			
HBIBU55	41	527112	1 - 349			
HBICD43	42	714390	1 - 187			
HBICD88	43	697628	1 - 446			
HBICJ68	44	823468	1 - 216			
HBICO81	45	527711	1 - 290			
HBICR51	46	847946	1 - 327			
HBICR90	47	527702	1 - 318			AA766781, and AA352756.
HBIDL73	48	531104	1 - 218			
HBIDN14	49	856216	1 - 401			AL117593, and AC007401.
HBIDO70	50	752830	1 - 523			AA249870, and AF205935.
HBIDP32	51	573846	1 - 263			
HBIDP41	52	494836	1 - 374			
HBIDQ75	53	847935	1 - 516			
HBIDT05	54	932302	1 - 86			
HBIDT47	55	573728	1 - 214			
HBIDW23	56	919383	1 - 447			AL078584.
HBIDW36	57	573847	1 - 498			

HBJDX18	58	795732	1 - 544	15 - 558	T94994, and AC007546.
HBJDX51	59	716395	1 - 391	15 - 405	
HBJEA22	60	674872	1 - 312	15 - 326	
HBJEA25	61	589249	1 - 498	15 - 512	AA912740, AA488771, T99916, AA370641, AA376428, AA488991, AA091598, D81695, AA305205, AA053093, AJ082436, AA779219, AJ041880, AI652229, AI216294, AL037847, AA319426, AA224141, AW392797, AI240672, AA160646, AW403677, AL037869, AI240700, AA314410, U91327, AF026293, and AF026166.
HBJEA44	62	973376	1 - 447	15 - 461	
HBJEA65	63	934994	1 - 543	15 - 557	T86098, and AI.031589.
HBJEA90	64	895961	1 - 739	15 - 753	AA888592, AA489084, D80258, D80014, T11417, D59503, D59627, D81111, D58101, D80064, C14227, D58246, C06015, C14407, AI557751, AI535686, AI557774, AA514184, T03048, D51079, D80227, AW377671, C14298, D80269, D59695, D80168, D59467, AI535959, D50979, F13647, C14014, D80133, AA809122, D51213, D80188, D80522, D80043, D80378, D45273, D59502, D52291, D80195, AA305578, C03092, C15076, D80164, D59275, D80038, C14389, C14331, D80247, D80157, D81026, D51799, D80439, D51103, H67854, D80251, D58283, D80949, AA514188, D59859, D59610, D80022, D80166, D51423, D59619, D80210, D80391, D80240, D80253, D80045, C14344, D59787, D50995, AA305409, D59551, D81030, D80212, D80268, D80366, AW367950, D80196, D51022, H67866, D80219, AW178893, D57483, D80193, D59927, D80248, D59889, D51759, D80302, AW360834, D51060, D59317, D80241, D80024, AA514186, D59474, D45260, D60214, C14973, AI525237, AW177440, D51221, T03116, D59653, C14429, AW378539, AI525917, AW360817, C75259, AI525920, D60010, C14077, AW177505, AW375405, D59373, C14957, AI525227, AI525242, AW360811, C14046, C16955, C05695, AW178907, AI525923, AW178908, D80228, AI525235, T02868, AW366296, AW178906, AW360844, Z33452, AA285331, T03269, AI525912, AW179328, T48593, Z21582, AW375406, AW378534, AI525925, AI525215, AW179332, AW377672, AW360841, AW179023, AW178905, AW177731, AW378528, AW178762, AW179019, AW378533, AW378532, AW352120, C05763, AW352117, T02974, AW377676, AW178914, C04682, AW378542, AW360855, AW178774, AW176467, N66429, D51053, AW179020, AW352171, AW178980, AW352170, D51250, AW177733, AW378525, AW179024, AW352163, AI525222, AW179018, C13958, D31458, AW178781, AI535961, AI525928, AW378543, AW177728, AW369651, AW178986, AW177456, AW178911, AW378540, Z30160, AW178775, AW178909, AW179004, AW179329, AW179009, AW178754, AW352158, AI525228, H67858, AA305720, AW177508, AW177734, AW177497, AW179012, AJ910186, AW177722, AI525216, AI525238, AI535665, AI525903, AB002449, AR016808, A82595, A84916, AB028859, AR060385, AJ132110, AR008278, AF058696, A62300, A62298, AR018138, I14842, AR054175, I50126, I50132, I50128, I50133, AR008277, AR008281, X64588, X68127, A70867, AR062872, I82448, I79511, AR016514, X67155, Y17187, AR060138, A45456, Y17188, A94995, D26022, A26615, AR052274, A43192, Y12724, A63261, A43190,

						AR038669, A25909, A64136, A68321, AR066488, AR008443, Y09669, AR066487, A67220, D89785, A78862, D34614, A30438, AF123263, AR016691, AR016690, U46128, D88547, AR032065, AJ000347, D50010, AR008408, and AR060133.
HBJED66	65	787251	1 - 161	15 - 175		
HBJEE29	66	888625	1 - 511	15 - 525		AA360671, and AL035652.
HBJEE30	67	531103	1 - 413	15 - 427		AA806058.
HBJEH70	68	971161	1 - 65	15 - 79		
HBJEI42	69	669495	1 - 410	15 - 424		
HBJEJ21	70	671201	1 - 291	15 - 305		
HBJEJ29	71	693490	1 - 411	15 - 425		AC002126.
HBJEJ83	72	847920	1 - 414	15 - 428		AA760836, and AW085046.
HBJEO29	73	693491	1 - 323	15 - 337		
HBJEP15	74	847843	1 - 363	15 - 377		AC005580.
HBJEP73	75	764573	1 - 320	15 - 334		
HBJER19	76	953804	1 - 249	15 - 263		
HBJES44	77	715846	1 - 608	15 - 622		W72060, W76253, AW291566, A1360806, A1871850, and AF086367.
HBJET76	78	527553	1 - 648	15 - 662		AA625290, and A1394096.
HBJET94	79	794343	1 - 258	15 - 272		AL133485.
HBJEW15	80	507534	1 - 650	15 - 664		
HBJEZ09	81	573781	1 - 276	15 - 290		
HBJEZ16	82	421567	1 - 350	15 - 364		
HBJEZ39	83	690479	1 - 320	15 - 334		T11506, AA490380, AA280331, AA233664, AA233243, AA232989, N49790, A1886810, A1660641, A1707610, AA243850, AA001344, A1814340, A1718247, AA897648, AA714834, A1499266, A1190321, A1832024, A1718088, A1718693, A1014672, A1091271, AW169874, A1078790, N52465, A1245448, AA811481, A1057060, AA744777, AA642417, N49687, AA233550, and A1222478.
HBJFC51	84	725818	1 - 484	15 - 498		AA303049, AA482928, F30650, A1915081, AA349606, AA832175, AW104788, A1962030, AA237098, H29914, AL119555, AA599423, AA878431, A1452836, AA613624, AW117860, M62259, A1659023, AA719523, AA632479, AA643770, AA632556, A1144081, AW302711, AW301906, AW302753, AA127426, AA493503, AA173342, AA664604, H69515, A1053560, N90460, AA837000, AA481887, AA804187, AA720732, H86106, AA394066, A1865807, A1701959, AA467988, AA586656, AA468051, AA992877, AA911515, AA515728, AW068316, AW188742, A1369580, A1354847, AA323085, C16659, AA995827, F24728, R98218, AA302817, A1653776, AA492313, AC003007, AC005632, AL133163, AC007371, AC007011, AL121754, AC005011, AF001549, Z98304, AC004383, AC006312, AC005696, AC005488, AC005412, AC006088, AL049778, AC005682, AC005544, AL021937, AC006515, AL049636, AC004887,

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HBJFJ53	85	573806	1 - 412	15 - 426	R94150, and T86024.
HBJFK55	86	625315	1 - 359	15 - 373	
HBJFL49	87	573970	1 - 417	15 - 431	
HBJFP58	88	738298	1 - 92	15 - 106	
HBJFV07	89	953795	1 - 122	15 - 136	
HBJFV59	90	573747	1 - 469	15 - 483	
HBJFW10	91	878778	1 - 405	15 - 419	AI762503, AI076416, AI243035, AI077308, AA700764, AA838319, AA868956, and AA187478.
HBJFW19	92	573765	1 - 339	15 - 353	AL133241, and U80460.
HBJFW20	93	573755	1 - 315	15 - 329	AC004692, and AL031684.
HBJFW50	94	571351	1 - 276	15 - 290	

HBJFW55	95	526682	1 - 259	15 - 273	AA283995, AI478915, AA283951, AI817564, AA283760, AA287165, AA286859, AA789104, and AC007068.
HBJFW68	96	573766	1 - 172	15 - 186	
HBJFW78	97	571347	1 - 380	15 - 394	
HBJFX57	98	573760	1 - 305	15 - 319	AL078584.
HBJFX81	99	529843	1 - 227	15 - 241	
HBJFY40	100	574095	1 - 450	15 - 464	
HBJFZ21	101	671191	1 - 235	15 - 249	
HBJFZ40	102	526679	1 - 437	15 - 451	
HBJFZ56	103	507530	1 - 329	15 - 343	
HBJFZ82	104	799685	1 - 325	15 - 339	AW005281, and AA558937.
HBJGR59	105	739095	1 - 551	15 - 565	
HBJGT72	106	957668	1 - 354	15 - 368	R50003, and R50021.
HBJGT92	107	919507	1 - 722	15 - 736	T84928.
HBJGU70	108	864063	1 - 474	15 - 488	
HBJGU78	109	920821	1 - 568	15 - 582	AI553853, AW079768, AI683616, AI536991, AI254730, AI356243, AI630887, AI829696, AI889334, AI344419, AW411027, AI391729, AI926804, AI282481, and AC004031.
HBJGV17	110	662725	1 - 475	15 - 489	
HBJGV22	111	613781	1 - 280	15 - 294	AA382068, D54550, H62431, H13929, AW176445, H80318, AW374298, AA418306, D54133, W01672, AL048935, AW374306, AW374317, W27179, AW176444, AW374310, W28706, AA234625, AR064426, AB004788, AF079221, AF067396, and AL132665.
HBJGV32	112	699075	1 - 377	15 - 391	
HBJHG04	113	836184	1 - 419	15 - 433	
HBJHG76	114	970826	1 - 476	15 - 490	AC008282.
HBJHI28	115	686278	1 - 314	15 - 328	M62004, and AL035410.
HBJHJ44	116	621723	1 - 359	15 - 373	AA207226, AL121444, AA019182, AA333455, W96231, AA331923, H08904, AA446987, and AW167577.
HBJHM50	117	724183	1 - 336	15 - 350	
HBJHM57	118	973257	1 - 419	15 - 433	
HBJHM76	119	715512	1 - 324	15 - 338	
HBJHN52	120	726570	1 - 334	15 - 348	
HBJHO11	121	964943	1 - 522	15 - 536	AW006288, AA977097, AI368637, AW197236, AI341105, AI650705, AI816278, AI590528, and R44511.
HBJHO60	122	975186	1 - 395	15 - 409	AL121820.
HBJHR56	123	686717	1 - 592	15 - 606	AA077952, AA482768, R96657, H79151, AW103981, AA169194, AA325699, M78177, AA626678, T69877, AA569387, AA332991, AA323749, AA326441, AA975645, AA357937,

HBHT32	124	488736	1 - 321	15 - 335	AI434706, AA491762, AA568331, N29941, AW419262, H92005, AI000800, AA847509, AA973803, W95976, AA650623, AA862181, W95841, N87420, AA523837, AA693370, AA446657, AA630362, R38154, AL120483, AL138455, AI865400, AI184354, AL110444, AL039958, AI799642, N84245, R67504, Z98473, AW152064, AI051230, AA377730, AA780929, AI056964, AW338754, AA563818, AA587604, AI348611, N22424, AA704391, AI270343, N70103, N70020, AF041058, AC005745, AC007666, AF054569, AF042835, AF045999, AC007999, AC004938, AC004098, U66059, U07563, AC004821, AC002073, AC003101, AC004447, AL078475, AF009660, AC005166, AC006538, AC002286, AC005781, AC004854, AC005523, AC005940, AC002550, AP000961, AJ003147, AC000094, AC005838, AC000085, AC005023, AP000553, Z69366, AC007106, AC005815, AC016025, AF010238, AC007845, AC004972, Z49237, AP000404, AL021393, AC005409, AC003041, AL031680, Z93241, AL034402, Z84572, AC005632, U67825, U67826, AC004253, AC005414, AP000555, AC002347, Z82198, U67829, AL031774, Z60740, AC005031, AF044101, AP000350, AP000111, AP000043, AC001050, AC016026, AC006141, U80017, AC001228, AC010197, AC001531, AC007226, AC005015, AC010209, AC004895, AC006312, AL031283, AC005081, AC005291, AC004812, AF129107, AL096761, AL023579, AF051934, AL024507, AC008170, AJ229042, AC005531, AC007878, AC009516, AL035681, AC006128, AL035417, AF207350, AC003998, AL121653, AP000705, AC006581, AC008045, AL035249, AC002985, AC010077, AF091512, AC003086, AC002429, AL008382, and AC000385.
HBHT32	124	488736	1 - 321	15 - 335	
HBHTV93	125	881606	1 - 348	15 - 362	H68571, AA641767, and AA223840.
HBHTX08	126	958970	1 - 636	15 - 650	AL117342.
HBHTZ03	127	923733	1 - 491	15 - 505	
HBHTZ08	128	958969	1 - 373	15 - 387	
HBHTA19	129	920881	1 - 678	15 - 692	
HBHTA92	130	494812	1 - 324	15 - 338	AA773280.
HBHTD21	131	670642	1 - 415	15 - 429	
HBHTD81	132	697594	1 - 433	15 - 447	AA524953, AI418334, AI079663, and AI807855.
HBHTL11	133	966701	1 - 414	15 - 428	AA864727.
HBHTL31	134	847865	1 - 527	15 - 541	AC007564, and AL049766.
HBHTL53	135	971136	1 - 524	15 - 538	
HBHTL75	136	698405	1 - 399	15 - 413	
HBHTL88	137	721859	1 - 475	15 - 489	
HBHTO70	138	725097	1 - 424	15 - 438	
HBHTO79	139	774812	1 - 486	15 - 500	AI797163, AA761740, and AI278601.
HBHTR58	140	735365	1 - 330	15 - 344	AC002470, and AC007308.

HBJY20	141	669519	1 - 148	15 - 162	AR050541.
HBJY86	142	725084	1 - 652	15 - 666	
HBJB02	143	919379	1 - 435	15 - 449	AC007488.
HBJB04	144	878974	1 - 448	15 - 462	
HBJB11	145	965016	1 - 424	15 - 438	AC007319.
HBJB15	146	659920	1 - 512	15 - 526	N27511.
HBJB26	147	681342	1 - 359	15 - 373	<p>AI886860, RI7495, H96146, AA582791, AA069643, W02625, AA745628, T51436, AA593092, AI955111, AW169038, AI538214, N32496, AA243974, AA244061, AA629731, AA737235, AA745653, AI343169, W24944, H39038, AA856904, AA324108, T62233, AA279649, AA188676, AW410201, AI671077, W03120, AI570237, AA187624, AW404337, AA848002, AI418661, H81267, AA229422, F23294, T26476, AA523695, AA032001, AW341741, F30158, R32162, AA179304, AA452325, AA668715, AA215470, AC004644, AC006111, AC005618, Z95331, AC006146, AC002312, AL021918, AC005089, AC005086, AC002381, AL031295, AC004687, AC008101, U91322, AC016027, AC005874, AF134471, AC016830, AC005081, AF047825, AC006449, AC007425, AL049709, AL132777, AC005730, AC002352, AL031311, AC009946, Z83819, AC003108, AC004970, AC003982, Z98884, AC005969, AC006006, AL121658, AC005015, AC008079, AC004216, AC005193, AC007546, AC007731, AL139054, AC006241, AL121825, AC006312, AP000504, AL133485, AC005500, AC004794, AC002544, U95739, AC003098, AP000103, AP000032, AL133243, AL021155, AF129756, AC004253, AC006581, AC005921, AL035681, AL022165, AL109758, AC007227, AL021391, AF111169, AC006130, AC005666, AF196972, AC007537, AL096701, AL050332, AL022334, AL096678, AC006084, AP000216, Z98751, AC002301, U15422, AL034402, AC006251, AC003037, AL035684, AL034418, AC005006, AL121653, AF196779, AC006211, AL078593, AC005531, AC005237, U73634, AC007566, AC002126, AF064861, AC005562, Z83843, AC002565, AC006040, AC000379, AL021026, AC005018, AL035460, AC005317, AC007376, AC004883, AC005037, AC004821, AC005971, AF001550, AC002404, AL109865, AC005207, AL031584, AC000035, AC005332, AC004938, AB020864, AL133163, AP000694, AC003661, AF003626, AC005486, AP000516, AC004876, AL035086, AL135744, AC005815, AP000514, AC005663, Z98752, AL049780, AC007055, AC006441, AC005377, AC008372, AC009510, AL031778, AC005664, AF111168, AC005907, AL031281, AC005620, AL021707, AF126531, AC020663, AL022302, Y14768, U91321, AL109967, U91327, AC000025, AC006160, AC004386, AC007052, Z83826, AC005544, AC007011, AL031673, AC004150, U63630, AC003072, AC007686, AC005048, AC006132, AP000553, AF195658, AC004542, AL022336, AF053356, AP000043, AP000111, AC004647, U91323, AC005082, AL133448, AL109952, Z97055, Z93017, AP000030, U07000, AC005768, AC019014, AL049832, AC007774, L78833, AC003119, Z84480, AC002365, AL121655, AC004223, AC005839, AC000353, U80017, AC005325, AL020997, AC005829, L78810, AC005632, AC005821, AL035413, Z69719, X69908, AC004933, AC002310, AC004983,</p>

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HBJB40	148	710873	1 - 519	15 - 533	AI205547.
HBJB61	149	741615	1 - 369	15 - 383	
HBJB62	150	743096	1 - 422	15 - 436	
HBJB74	151	765406	1 - 426	15 - 440	
HBJB78	152	489438	1 - 390	15 - 404	AA076977, and AA076965.
HBJD31	153	691780	1 - 452	15 - 466	R5828, AP000556, and AP000557.
HBJD90	154	712982	1 - 435	15 - 449	AL035090.
HBJH48	155	721473	1 - 357	15 - 371	
HBJN13	156	915977	1 - 414	15 - 428	W93924.
HBJQ29	157	666221	1 - 384	15 - 398	AA566068.
HBJS46	158	718894	1 - 589	15 - 603	
HBJU62	159	664298	1 - 415	15 - 429	
HBJU81	160	671611	1 - 375	15 - 389	
HBJX04	161	949592	1 - 917	15 - 931	AW449043, AA515418, E15648, E15652, and E15653.
HBJX11	162	847854	1 - 403	15 - 417	AI343473, AW294828, AI521275, and AI797793.
HBJX44	163	657242	1 - 561	15 - 575	
HBKA75	164	682250	1 - 233	15 - 247	T55674, N32741, and AL110337.
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HBJKC52	165	974123	1 - 494	15 - 508	AI032590, AI568523, AA015921, AA020884, R08692, W01056, AI918922, AL049648, AC004805, U91322, AL079304, AL023581, AC005611, AC005243, AC007298, AL031056, AC000004, Z98884, AL049830, AP000246, AP000129, AP000207, AC005579, AC004525, and AC013256.
HBJKC56	166	735812	1 - 287	15 - 301	T96742, and H52012.
HBJKC86	167	974121	1 - 514	15 - 528	
HBJKD68	168	676330	1 - 238	15 - 252	
HBJKE63	169	744847	1 - 369	15 - 383	
HBJF06	170	935033	1 - 589	15 - 603	AW241714, and AA927828.
HBJF86	171	714449	1 - 494	15 - 508	
HBJKI26	172	489160	1 - 516	15 - 530	W87882.
HBJLB78	173	588085	1 - 317	15 - 331	
HBJLC51	174	784830	1 - 865	15 - 879	AW451973, AI766808, H88067, AA477171, AI376202, AA760752, AA781175, AW173607, AA992090, AI654796, AA946869, and H88069.
HBJLD57	175	683265	1 - 460	15 - 474	AA465326, and AL031733.
HBJLD73	176	765356	1 - 408	15 - 422	

HBJLE82	177	735748	1 - 474	15 - 488	
HBJLF58	178	864013	1 - 226	15 - 240	
HBJLL07	179	952791	1 - 273	15 - 287	
HBJLL13	180	656721	1 - 291	15 - 305	
HBJLL18	181	665874	1 - 329	15 - 343	
HBJLL28	182	847840	1 - 340	15 - 354	<p>AA483929, AI499588, N57739, AA664548, AA493136, AI524360, AI791913, AI821714, AA482273, AW023990, T06754, AA455670, AA630672, AA501649, AA961035, AA579179, AA837087, AA533782, AA487888, AW438542, AA503298, AI821785, AW023149, AI223700, AW149313, AA588001, AA618452, AI473475, AA662976, AW270343, AI933714, AI431240, AA858372, AW148507, R31790, AA857370, AW196064, AA339692, AA580808, AA864261, AA502991, AW238605, AA370455, AI580250, AA507282, AI648410, AI587224, AA483771, AW270709, AA595499, AA516233, AA828062, AA501852, AA719073, AI470646, AA846935, AA297666, AI859438, N23504, AI683446, AA436774, AI138096, AA002063, AA635368, AI042927, AI874308, AA654661, AA610688, AA436782, R23521, AA515905, AA502440, AI696595, AA071334, AA621381, AI921043, AA468505, AW341978, AI792133, AA230213, AA643770, AA651632, AL036037, AI354388, AI754544, AA707782, AA707705, AI341571, AA833896, AA282820, AA833875, AI733856, AA780944, AA503119, AI754567, AA483223, H25921, AI755214, R23441, AI691091, AA493975, AA368573, AI056177, AA522642, AL038971, AA513893, AA653375, AI044586, AA687535, R73754, I129019, AA634837, AI047429, AA209423, AI587565, AI587583, AW302080, AI253007, AW081194, AW302087, AI434695, AA077019, AC004257, AC005696, AC016830, AC005060, AC006313, AC005071, AC003070, AF111168, AL049779, AL031447, AF047825, AC004659, AC006120, AC004148, AL133246, AC016027, AC007191, AC005002, AC005527, AP000556, AP000252, AC003029, AP000552, Z82180, AC003690, AC005226, AC004832, AC004883, AC005581, AC005387, AC004999, AL121653, AC004884, AC006312, AC005519, AC007842, AC005003, AL033518, AP000557, AL096701, U82828, AL049653, AP000703, AL121595, AC006251, AP000116, AP000049, AC007277, AC004638, AC005914, AL035422, AL050318, AC005880, AP000121, AP000053, AC005939, U47924, AL110502, Z97054, AC006112, AC005317, AL135744, AP000311, AC003663, AL049761, AC004953, AC004019, AC002116, AC005694, AC006487, AC005512, Z95115, AL021807, AL049745, AC007011, AC002301, AC005231, AC002375, AC006978, AP000066, AP000558, AC012384, AL109984, AC005197, Z75746, AF001549, AL031228, AC004814, AC006285, U82668, AP000513, AC005529, AL021940, AC005971, AC002310, AC006208, AP000244, AF111169, AC005899, AC005280, AC005049, AC006441, AC002531, AL049776, AC020663, AC007172, AL022165, AC004675, AC005031, AP000251, U91326, AC004149, AC003024, AF165926, AC006530, AI003147, Z85999, AL023553, I77570, AL049589, AC009247, AC005305, AC005790, AL109798, AC007193, AC005730, Z84483, AL034451, AC002492, AC004983, Z84466, AC004706, AC007450, AP000355, AC005181,</p>

HBJL57	183	734522	1 - 322	15 - 336	AF088219, AC006581, AC002543, AP000065, AC007546, Z93942, AC005856, Z85996, AL080317, AP000689, AC005409, U89335, AL031673, AP000030, AJ133269, AC004812, L44140, AC000159, Z98036, AB023052, AF196969, AJ010770, AC002470, Z83844, AC004686, Z82214, AC000134, AC003982, AL078477, AC009516, AL035420, AP000692, AC016831, AC005399, AC009399, L78810, AC005531, AC007358, AC005089, AC005800, AC004655, AL049699, AL033543, AC006137, AC002041, AC000025, AL049757, AC004383, AC007387, U91323, AC007227, AP000512, AC007262, Z98884, AL133448, AL049759, AC007114, AL033522, AF043945, AC006211, AC007656, AC004955, AC004263, AF129756, AL022721, AC005598, AL031255, AC005765, AL049872, AL031983, Z85986, AL035684, AC007371, AC008040, AC003043, AC008132, AL022323, AC005520, AC005480, Z98051, AL049760, AL080243, AC004815, AL022316, AC005037, Z83846, AL023807, U80017, AC002472, AL133163, AC007919, AC006453, U91325, AC005535, AC005940, AC000353, AC005209, AL022396, AL008582, AP000503, AC005740, AC002996, AC007785, AC006026, AC005081, AC004448, AC007686, AC006040, AC016026, AC002395, AC004848, AC005234, AC002070, and AL139054.
HBJL58	184	752810	1 - 332	15 - 346	
HBJL59	185	657747	1 - 341	15 - 355	
HBJL60	186	843811	1 - 882	15 - 896	AA075481, AA075480, AA075067, AI791780, AA127140, J04716, L39879, L01122, M73706, S89400, K01930, J02741, U75408, W38303, AA076112, and AA076111.
HBJL61	187	779004	1 - 354	15 - 368	AW239537, AA232075, W78769, AW020962, AA448818, AA128583, and AJ010842.
HBJL62	188	823400	1 - 374	15 - 388	AI797543, AA121152, AW189950, AA281969, AI082147, AI034184, AI871347, AA815173, AW418773, AA579808, AI468532, AI290248, AA458860, AA227296, AA573302, AA702437, AA278877, AA227295, AI458479, AI802340, T07432, Z39708, AI985569, T85327, AA659414, AI027853, AI766719, AA350191, AA904439, T16811, and AC004798.
HBJMA30	189	661665	1 - 646	15 - 660	T87986, and AA814273.
HBJMA51	190	725095	1 - 179	15 - 193	
HBJMC53	191	726491	1 - 454	15 - 468	
HBJMD71	192	760155	1 - 531	15 - 545	
HBJMD74	193	975088	1 - 467	15 - 481	AW206211, AF150250, C14388, AC002045, AC009509, AC006241, U52111, AC002554, AC004491, AF047825, AC005086, U95739, AF111168, AC007285, U80017, Z82190, AL031602, AL121655, Z97054, AC004893, AC005874, AF134471, AC007993, Z85987, AC003104, AC000134, AC007919, AC004692, AC008115, AC005363, AC005822, AC005300, Z94801, AC002128, AC003029, AL034429, AC005088, AC005914, U96629, AC005534, and M18157.
HBJME92	194	792110	1 - 426	15 - 440	
HBJMF23	195	675692	1 - 379	15 - 393	AA126910, AP000360, AC000053, AC002060, and AC005002.

HBJMF30	196	691179	1 - 566	15 - 580	
HBJMF47	197	720050	1 - 374	15 - 388	
HBJMT6	198	720047	1 - 425	15 - 439	
HBJMK34	199	935952	1 - 443	15 - 457	AW182540, AA610084, AI936489, AA306791, AW340569, AA905749, and AB033050.
HBJMK94	200	794129	1 - 438	15 - 452	AW004683, H87822, H87851, and AW015156.
HBJML28	201	614911	1 - 465	15 - 479	AC004254.
HBJML69	202	864004	1 - 662	15 - 676	AL031657.
HBJMN72	203	760833	1 - 408	15 - 422	AI241023, AW401921, and AB023483.
HBJMN75	204	699060	1 - 448	15 - 462	AC002368.
HBJMQ86	205	576429	1 - 513	15 - 527	H55415, W22115, AL096701, and AB011114.
HBJMR15	206	964484	1 - 493	15 - 507	
HBJMR60	207	740142	1 - 601	15 - 615	AA601336, AA640305, AW341878, AI567676, H79323, AA593168, AW020612, AA167656, AW085626, AA729004, N27362, F35374, N49298, AA179364, W45416, AI520984, T89141, R99617, AI253347, AI918661, AI061158, AI281622, AA947352, AA228268, AA664963, W27084, AA761454, F01694, T57636, AA299490, AI744890, N63562, AI640905, AI919048, H81012, AI569452, AA828840, AI828721, AA496042, AW028376, AI343808, AA776663, AA428991, AI363336, AI149177, AL049743, AF165926, Z83840, AL109984, AL031311, AC005412, AC004821, AC007686, AC007546, AC007207, U85195, AC005377, AC007421, AC008115, U95742, AE000658, AC004832, AL035587, L78833, AC007216, AL020997, AL031589, AC004797, AC005520, AL035420, AF196779, AF139813, Z98200, AL033392, AC003025, AL035086, AL080243, AL121655, AC006530, AC005355, AC002312, AJ246003, AC004228, AC004895, AC005180, AI096791, AC006312, AP000512, AC005519, AC006285, AC005081, AL049869, Z82190, AC005839, AC005015, AL049694, AC004816, AC006071, AC005726, AC002120, AL031293, AC005089, AC006121, AL021453, AC005527, AC005696, AC006139, AL135744, AL133163, AF217403, Z97630, AC005971, AL035422, U78027, AC004878, AC004975, Z82176, AF023268, AC000025, AL121603, AL008582, AL049757, AF001549, AC005399, AC005914, AC007387, AC005207, AC000048, AF207550, AC005821, AC002094, AP000248, AC005876, AC002117, AC005231, AC005288, AL034429, AC006130, AF111167, AP000704, AL133448, AL096701, AC007386, AF111168, AC005529, AL031280, Z98884, Z73979, AF134726, AC004099, AC006581, AF051976, AC006160, AC006077, Z93020, AC004212, AL008734, AL031655, AC007993, AC005695, AP000555, AC004913, AC007308, AF109907, Z97056, AC005277, AL020995, AC003041, Y18000, AL117329, AC007263, AL034421, AP000503, AP000008, AC004967, AP000514, AC004834, AC002558, AL034420, U52112, AC005632, AL022333, AC005755, AL049780, AL031123, AC007055, AL133246, AC005911, AC005049, AC003109, AD000092, AC004897, AC007226, AC005183, AC005829, AL023807, AL122020, AL109952, AD000864, and AC005993.
HBJMT52	208	726480	1 - 240	15 - 254	

HBJM72	209	952862	1 - 469	15 - 483	
HBJM720	210	669030	1 - 643	15 - 657	
HBJMX04	211	614930	1 - 338	15 - 352	AI810024, AW023610, and AA609969.
HBJMX21	212	933143	1 - 353	15 - 367	
HBJMX29	213	690404	1 - 347	15 - 361	AW166629, AA601349, AA052895, N66744, AJ732437, AI114704, T86740, AA491447, T98482, AA918759, AA663115, AA663086, AA291630, H72049, AW084938, R11040, AI926873, AW440498, T87973, AA846969, H93001, N63743, AA603883, AW028174, AA838162, AA507035, AA706845, AA837385, AA291700, AA297496, H73336, AA352365, AC004961, AL133382, AL034411, Z73420, AC002352, AC004887, AC003108, AC004645, U91326, AC006111, AC005509, AC004081, AL008712, AC016831, AL031276, AL033392, AC005531, AC007298, AL080286, AC004950, AL031985, AC004987, AC004448, AP000365, AL021939, AP000514, AF015262, AJ229043, AC005037, AL020993, AF196969, AP000547, U08988, AP000295, AP000044, AP000112, AP000152, AC004223, AC007663, AC006549, AF001549, Z68756, Z70289, AC007774, AC005516, AC004466, AC002312, AC002390, Z92547, AC005746, AC003071, AC002544, AJ010770, AL031584, AL121595, AB014080, AF017104, AB026898, AL050312, AL034408, AF020662, AC000078, AL109798, Z95331, AC002400, AC006441, AL049430, AC006059, AF147316, AC005081, AC004638, AC004876, AC004106, AL022578, AC002365, Z85987, AF196779, AC007364, AC004167, AL034582, AC016027, M98447, U82671, AL009179, and AP000553.
HBJMX34	214	703843	1 - 382	15 - 396	
HBJNC11	215	966608	1 - 516	15 - 530	
HBJNC89	216	786707	1 - 341	15 - 355	
HBIND59	217	576434	1 - 767	15 - 781	AA985391, AI053911, AA548890, AW403888, AL037632, AA081462, AI470646, AA834809, AA588001, AA833896, AA833875, AI580250, AA912287, AA483771, AA380354, H59372, AW274349, AW303196, AA580808, AW196064, H61630, AW301350, AL138096, AA515457, AI791913, AI792133, N54894, AI821714, AA679154, AI282511, AA483218, F25733, AI270096, AL119713, AL120687, AI283312, AA683258, AA507822, AA457642, AA491862, AA838190, AA491650, AW270270, H70994, AI821785, AW440545, H69109, AC007226, AF003528, AL031905, AC005815, AL008715, AC005036, AC008055, Z98941, AL096772, AC023172, AC005144, AC006013, AC007435, AP000228, AF165147, AP000140, AC007488, AP000088, AC005722, AC002480, AL049712, AC002523, AP000201, AP000093, AC005881, AC007447, Z82198, AP000097, AP000237, AF107258, AC007437, Z74739, Z86064, AJ229042, AC005261, AF001552, AF146191, Z83846, AC007842, AL009050, AC007671, AC005249, Y12853, AC007298, AL023807, AC004216, AC008372, AC005011, AL078459, AL031664, AC007066, AP000961, AL035089, AL079342, AL024495, AC005284, AC004741, AL121595, AC002499, AL021978, AC005874, AF134471, AC005146, U91323, U82668, AC002536, AP000966, AC007262, AL033379, AC004948, AL080239, AC002091, AC007681, AL049744, AC010200,

HBMB18	218	578887	1 - 298	15 - 312	AC006965, AL033527, AL008629, AC007363, Z98742, AC006450, AC007182, AL020995, AC003009, AC006210, AF045450, Z84483, AC008122, AC006080, AC004638, AC002492, AL080285, AL022336, AL049779, AF165175, AC007395, AL020989, AC002543, AC004805, AL021939, AC006322, AC005682, AC008072, AC005006, AC009721, AC003086, AC006379, AC005243, AL021391, AC004061, Z97205, AC008124, AC005035, AF064860, AL031666, AP000108, AC007270, AL022144, AP000086, AL031681, AC005082, AC002429, AC009069, AL033525, AB020869, AC004905, AP000958, AP000161, AL031735, AC002449, AL133241, AP000150, AF053356, AL049540, AL049875, AC010169, AC005410, AC004108, AF015262, U82696, AL031012, AL035416, AL117329, AL096792, AL022323, AP000009, AC005871, AJ229043, AC002463, AL121877, AC005482, and AC006390.
HBMB25	219	573103	1 - 414	15 - 428	AB014526.
HBMB35	220	921417	1 - 348	15 - 362	AC004702.
HBMB91	221	506594	1 - 560	15 - 574	H69543, H80124, W88965, W88544, R02124, and AP000497.
HBMBE72	222	760737	1 - 632	15 - 646	AW205507, and AI300640.
HBMBE84	223	578869	1 - 325	15 - 339	AC005905.
HBMBH36	224	971172	1 - 341	15 - 355	
HBMBH55	225	732250	1 - 289	15 - 303	
HBMBH91	226	753141	1 - 199	15 - 213	
HBMBI06	227	935819	1 - 407	15 - 421	
HBMBN32	228	775670	1 - 362	15 - 376	AA127005, H06566, AA125853, R56714, and AF191018.
HBMBQ20	229	496513	1 - 453	15 - 467	RI1468, AL009031, and AC002326.
HBMBQ33	230	702457	1 - 461	15 - 475	AA604872, AA026240, AA704592, AA258677, AC004087, and AC002385.
HBMBQ83	231	689705	1 - 533	15 - 547	
HBMB811	232	967111	1 - 355	15 - 369	
HBMBT85	233	863938	1 - 349	15 - 363	AC018633, and AC005271.
HBMBU24	234	677240	1 - 179	15 - 193	AA747565, AW207289, AI249497, AW366372, AI336633, AI434255, AI432653, AW149876, AI336634, AI524654, AI472536, AI049713, T99953, R28164, AI538938, AI289542, AI344935, AI267185, F28295, AI114703, AI811603, AA749184, AL048323, AW059828, F35428, AL048340, AI473208, AI479292, AI360195, AW022102, AI890507, AI285514, AA493923, AI383804, AI801325, AW020419, AI690813, AI687568, AA595932, H89138, AW188698, AI699020, AI687587, AI289791, AI521005, AI784233, AI918554, AI345005, AW020095, AW169643, AI345745, AI225000, AI440263, AI698427, AA939199, AI468959, AI310575, AI161279, AI799351, AI872423, AI334893, AA481494, AI340533, AA761917, AI669640, AL120831, AI284509, AL047398, AI689404, AW169628, AL040207, AI345736, AI273919, AA587590, AA502794, AI345415, AI246070, AI436429, AI345396, AI366959, AI828574, AI499104,

AI345397, AI627714, AA207067, AI955945, R65859, AI560227, AI335235, AW021373, AI699056, AI285419, AI273856, N99092, AL047422, AI434731, AA127565, AI336631, AW072719, AA642348, AW190242, AI539690, AW079768, AW268302, AW235501, AA768478, AI583982, AI337186, AW302954, AW104141, AI348854, AI002285, AI050666, AI307494, AW274355, AI250646, AW088899, AA176980, AI336582, AW167229, AI251221, AI349957, AW131952, AA653459, AI285439, AW161579, AI885949, AI582871, AI581033, AI224463, AL048644, AW274192, AI500706, N27632, AI254727, AI500662, AI471429, AW301505, W48671, AI340511, AI624304, AA857847, AI679959, AI633061, AW022494, AI348870, AI571699, AI699154, AW020288, AI702527, AA420722, AI349814, AI349186, AI336575, AW020710, AW023859, AI609375, AI349772, AL038463, AW020397, AI334895, N63128, AA579232, AA635382, AW082835, AI815232, AI335476, AI343030, N33175, AI471909, AI491904, AI284517, AW268964, AI379711, AI218156, AW243232, AI804505, AI866581, AW075382, AI859644, AA629977, R32821, AW020826, AA062896, AI927233, AI348895, AI656270, AW068845, AI698391, AI336495, AI349276, AI538564, AI784214, AI612885, AI345639, AI553645, AW191003, AW089122, AI915291, AI371251, AW152182, AI538850, AI859991, AI537273, AW148303, AI582932, AA514684, AW020373, AI590043, W38903, AI586931, AI524179, W46378, AI446775, AI690946, AW088560, AW301344, AI521560, AI889189, AW264727, AL036146, AW161202, AW172723, AI309306, AI473536, AI866461, AL045626, AW151979, AI866469, AI865116, AI553669, AI252077, AI348897, AI250627, AW274318, AI500714, C16221, AI950892, AI633125, AL048499, N22276, AL047344, AL137562, AL137712, AR068466, E12579, AL117440, S77771, AR038854, AL133093, AF043642, A08913, L04504, U89295, A08912, X06146, E12580, AL133606, A08910, E01573, E02319, AI8777, A08909, AL049324, X99257, X57084, U80742, S76508, AL137276, A08908, S36676, AL122123, AL080074, A08907, L40363, AF090886, S69407, AL049452, AL110196, U90884, AL133081, AL137273, X93495, AL117432, AL110280, AC006197, AR050959, I89931, I33391, AL110197, AL049460, AB030279, I89934, X00861, I49625, AF026124, AF058921, AF150103, AR064250, AB019565, AI131955, AL133636, AL050280, AB025103, AF079763, E00984, I04527, X62773, AF008439, I89947, A65965, L13297, Y11587, A65943, AL050155, E03671, AF200416, AF017790, I30339, I30334, I48978, AL096720, AF090896, AL133565, AF114168, AL008706, E08516, E02152, X63410, S75997, AL137429, AF100781, A90848, X62580, U67328, AR029490, I46765, AC006313, AB007812, U96683, X86693, AL080147, AF016271, E01614, E13364, U91329, AL137292, AJ012755, U72620, I89944, AF026816, AF169154, X82434, X79812, A65341, I42402, AF031147, M86826, AF106697, AL080158, E01314, AL122100, I66342, S83440, U62966, AL133113, AL133010, AF137367, AL137555, U75370, AF047443, AF032666, X72889, AL137550, AF001552, L24896, AF115410, U75932, AF091084, AL133104, AF175903, AL117644, AR054987, Y11254, AF141289, AL137538, AL133557, AL133016, AF036268, U57352, AL080132, AL080137, Y10080, AL137548,					
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HBMBU38	235	531494	1 - 311	15 - 325	AL031259.
HBMBX69	236	698362	1 - 319	15 - 333	AC004883.
HBMBY27	237	574803	1 - 407	15 - 421	
HBMZ71	238	880580	1 - 1275	15 - 1289	AI075978, AW298093, AI201251, AW293546, AI917770, AA906330, W63599, AW086186, AA890701, and AA551674.
HBMCA44	239	716647	1 - 504	15 - 518	AA693506, AA411644, W31362, AA422026, W24882, AA016012, H16662, and AW351706.
HBMCA58	240	736084	1 - 287	15 - 301	AI380599.
HBMCA94	241	793174	1 - 444	15 - 458	AL078644.
HBMCD26	242	847826	1 - 275	15 - 289	
HBMCD49	243	723005	1 - 344	15 - 358	Z83853, AC006318, AC004137, and AC006262.
HBMCE22	244	674659	1 - 439	15 - 453	W31342, and AI699098.
HBMCH75	245	932037	1 - 562	15 - 576	
HBMCH88	246	711318	1 - 387	15 - 401	
HBMCK57	247	495736	1 - 493	15 - 507	AI859108, AI565562, AI366188, AA703350, AA983821, H59553, T98748, W26825, and AA630729.
HBMCO14	248	658484	1 - 253	15 - 267	AF083106.
HBMCS34	249	703438	1 - 675	15 - 689	R25159, AW294139, and AI474654.
HBMCS77	250	465070	1 - 486	15 - 500	R00604.
HBMCT67	251	751643	1 - 312	15 - 326	AL031123.
HBMCU92	252	529580	1 - 514	15 - 528	
HBM CZ11	253	967099	1 - 303	15 - 317	
HBM CZ27	254	683436	1 - 331	15 - 345	U73636.
HBM CZ32	255	835694	1 - 369	15 - 383	AA610530, AL120543, AW192373, AA564682, AA470958, AC007204, AC005899, AL031291, AC002040, AL049830, AC005971, AC004783, AC006213, Z97832, AL049776, AF047825, AC002492, AF196971, AL035588, AC002470, AC007401, and AL078634.
HBM DA51	256	691116	1 - 434	15 - 448	

HBMD03	257	924183	1 - 405	15 - 419	
HBMD16	258	888206	1 - 398	15 - 412	
HBMD88	259	750274	1 - 135	15 - 149	
HBMD36	260	861576	1 - 279	15 - 293	
HBMD59	261	739316	1 - 333	15 - 347	AA027081, AI525653, AI525669, AI557238, AI557808, AI557602, AI547225, AI557426, AI541321, AW020592, AW022727, AW021178, AI541056, AW022874, AI541048, AW020406, AW019988, AW021777, AW022826, AW022299, AI557222, AI525802, AW020425, AW022308, AW020328, AI886206, AW020634, AW023351, AW021693, AI557258, AW020931, AW022981, AW021182, AW020480, AW021466, AW022593, AW020629, AW023884, AI525857, AW021561, AW021059, AI525656, AW023617, AW020295, and AC007655.
HBMD19	262	657382	1 - 339	15 - 353	AA677098, and AC004814.
HBMD55	263	952830	1 - 393	15 - 407	
HBMDH79	264	805554	1 - 788	15 - 802	F34605, AL046519, AI340151, N69399, AI246061, AA229159, F00350, AI302350, H64549, F24745, R68706, H16875, AW071109, AI204309, AA523719, AA778580, AA456149, M85827, AI280566, M78026, Z30049, W45215, AA648957, H68343, AC012384, AC002480, AC005531, AL008710, AL035079, AL031729, AL049631, AC004025, AC004983, AL022320, U80017, AC007488, AC004477, AL121769, AL022397, AP000300, AC002994, AI049832, AC002350, AC007172, AC007066, AC006449, AP000113, AP000045, AC007014, AC004466, AC003681, AC006557, AC004791, AL031054, AC007880, AF109907, Z98884, AC005529, AC004797, AC002310, Z99943, AE000658, AC006101, AP000346, AL049712, AC003046, UI5177, AC004874, AC005516, AL022316, AC002990, Z83822, AP000354, AC007040, AC005527, U91323, AC005191, Z82194, AL135745, AF001550, AC004656, AL031668, AC005829, Z95114, AL021707, AL121653, AC004448, AL121852, AL021578, AC004890, AC005184, AC005486, AC006141, AL008718, AC007228, AC004584, AC000003, AC003108, AC007919, AF196971, AP000501, AL096711, AC004816, U96629, AC006120, AF207550, AL031655, AC004263, AC005846, AC002367, AC006576, AL034429, AJ003147, AC007955, AC002369, AL049709, Z86090, AL034420, AC018633, AL121748, AC000159, AL035420, AC006509, AC004953, AC002528, AC004878, AC005015, AC005280, U89337, AC005049, AC002303, AC006137, AC005099, AL008635, AC007546, AC005696, AC004858, U89335, AL035681, AC003029, AF024533, AL031255, AC005664, AC005207, AL109984, AL035587, AC005865, AL022326, AC005844, AC007182, AC005753, AC000097, AL008725, AL031848, AC006547, AC002470, U91325, AC000379, AB015355, AC005164, U91318, AL035652, AC005332, AC002091, AL049869, AC006468, AC005007, U95742, AC002565, AC006538, AC007707, AC005158, AC005800, AL031733, AC003075, AC005037, Z85986, AC005859, AC007216, AL031643, AC004223, Z84487, AB003151, AP000688, AL034423, AL022722, AC005736, AL031591, AC003982, AF069291, AL034553, AC002312, Z82190, Y10196, AC004098, AC004967, AP000313, AC003950, AL035249, Z95704, AC005197, AC009542, AC005484, and AR036572.

HBMDJ11	265	967046	1 - 325	15 - 339	AC005971.
HBMDJ36	266	721673	1 - 188	15 - 202	AW303196, AW274349, AW301350, AI754955, AA649722, AA634145, AA768097, AA937687, AA810370, AA719080, AA573020, AA644207, AA709005, AA504638, AA558060, AA487858, AA568778, AA649705, AA579736, AA554319, AA858197, AA461233, AA513972, AA501578, AA814522, N29933, AA132914, AA483731, AA480790, AA824655, AA824654, AA582911, AA077817, AA437161, AI830390, AA523815, AA330859, T15897, AA650450, AA602528, AA670468, AA861959, R97934, AA845813, AI434706, AI962050, AI284640, R38154, AA610493, AW440976, H50727, AI251002, AW236342, T07451, AA167659, AA525824, AA577906, T71030, AA229785, AA522942, AA603156, R97326, T06828, AA678499, AA743978, AA504871, AA578481, AA492140, AA623002, AA970213, AI625244, M77899, T05101, R89294, AA199616, AA490183, AW193265, AI282832, F18974, AA259245, AW276435, AI270117, AA826303, AI688846, AA605032, AA649642, AI824562, AA745104, T41124, AA113861, AA720548, AA729721, AA634146, AA525876, AA326589, AA569167, AI205126, AI278997, AA552885, H64778, AA346575, AA610611, T08438, AA325817, AI339850, AA075995, AW029038, AA558015, AA947360, AA804379, AI929531, AA664015, AA837677, AA632837, AA515435, AA550758, AA973803, AA483068, H63607, AA774184, F32800, AA703887, AA719805, AI434695, T06556, AW088058, AI537955, AA177061, AA020850, N66428, AA594145, AI469172, F19012, F36273, AA401022, AI216799, AA886584, AW438643, AA578391, AI281697, N33611, AA252263, AA837084, AA446657, AA947811, AA233519, AA780797, AA847128, AA771811, AA491762, AI291124, AA378580, AA586562, AI471481, AW166815, AA890235, AA713815, AA745410, AW162049, AA515051, AA665021, AW419118, AA323749, AI291268, AW276827, AI014358, AA503473, AA610783, AW021747, AA449088, AI537030, AA599920, AA605274, H10994, AL046409, AW440836, AA743960, AA368936, AI341548, AI679782, AA813902, W16581, AI904894, AA678443, H64563, AI564185, AA601499, AA485291, AA598586, AW193432, AA779040, AA346454, AA775940, AL044940, AI917271, AA557879, AI281881, AI469003, AI287651, AA385100, AA557686, AI801591, AI446464, AI286264, AW302450, AF150152, AA325699, AA441788, T40077, AI918421, T41155, AA225155, T67750, AA678772, AA827295, N63352, AI431303, AI049722, AI133636, AI567674, N25296, AA501722, AI002834, AA558697, AA747480, AI053672, AI674873, AA644551, AA551503, W47183, F03097, AI350211, AI890923, AA468131, AA352803, R97969, AA552945, AA569387, AW338500, AL046457, AA513293, AI375710, AA458736, AI287528, AA587604, AP000130, AP000208, AP000247, AP001046, AI096701, AP000302, AP000114, AP000046, U13056, U07000, Z83822, U14694, Y12508, U14719, AC004606, AF060568, M27161, AC005994, Z82208, AF003528, U89335, AL049869, AC006210, U14718, AL031447, AL035420, AP000307, M87916, L43392, AC006241, AC002984, U14687, Z82975, AL049843, AC004024, AC005971, AC007043, AL049776, AC007656, U47924, AP000047, U67274, AC005251,

					AC004955, AP000431, AC002542, AC007671, AP000354, AC004417, AC004916, AC004856, AP000115, AC000353, AL049745, D83989, AC020663, U20770, I51997, AL022328, AL078476, X75335, M89651, S75337, U14695, U14705, Z93241, U14717, AF147277, S70694, S70692, AC012599, U14685, U14686, U14689, U14691, U14699, U14702, U14707, U14710, AC009509, AC006111, AP001051, AC006128, AJ006996, X58156, AC005200, AC000041, AC003962, AC002432, AL035407, AL096712, AL035425, AC005488, AC004953, AC004019, AI034429, AC008545, AL020996, AC006305, Z82211, AL049569, AC010205, AC007695, AL022238, AL096710, AC004768, AC004921, AL031597, AC005164, U73633, AP000555, AC007225, AC005778, AC004859, AC006315, AC005548, AL021453, AC004206, AP000297, AL049830, AL109967, AC006466, AL035695, AC008101, AC008125, AC006441, AL033379, AC004542, Z84814, AC007387, U57009, U18399, U14714, X54180, U18391, U18392, U57006, U18394, X55925, U18393, U57005, AC004385, X54179, X55928, AL035417, AL117354, D42052, U89336, AC005915, AL008629, AP000311, U91319, U18390, X55932, AF126403, U14703, AL034423, S70697, AC004671, AC002059, AL023494, S70689, AC002077, U14688, U14692, AC005252, AP000548, AC006013, AC005043, AL023882, AL022318, U02048, U02054, U02063, AC002072, AC007666, AC006511, AC006265, AF067844, AC004990, AC005242, AC004998, AL022721, U32576, AC004553, AC006126, AP000306, AF094481, AC005331, AC005175, AF129077, U67829, AC013248, AL008709, AC004227, AL031391, Z98046, AF130247, AF121781, Z98743, AC002564, AL031286, AC005102, AC004987, AC006476, Z86061, AC002379, AC004222, AL109622, AJ006998, AL034402, AF165138, AC004675, AC004806, U80017, Z95115, AC004931, AF165147, AC005154, AC010722, AL031584, AC006031, AC006064, AC009069, AC007538, AF088219, AC005815, AL022726, AC006057, AC006043, AC007207, AC007073, AF001549, AF027390, U66059, AC004526, Y10196, AP000961, AL031054, AC004458, AF077058, AL035450, AC002310, AF029061, AJ246003, AC006251, AC002996, AL050305, AL022157, and AL023804.
HBMDK13	268	657221	1 - 610	15 - 624	T85668.
HBMDS17	269	796050	1 - 521	15 - 535	AI142427, AF073792, U51134, and I81226.
HBMDS64	270	746572	1 - 392	15 - 406	AI205126, T55510, AI003172, T53606, F19258, AW104748, AI474713, U51696, W60516, F29989, AA557325, AI608626, H71429, AW080134, AI365988, AA340960, AI962050, AA814017, AI251002, AW339687, AA515051, AI929531, AW166815, AI635272, AA169801, AA229785, AW162049, AW440836, AI339850, AI890923, AI567674, AI625244, AI049722, AW029038, AI904894, AI917271, AI133636, AL119391, AA713815, AI469003, AA826303, AA904218, AL120674, AW338500, AA115968, AA584751, AW131034, T29180, AL038785, AA079706, T12272, AI922840, AL040913, AI368745, AA340003, AA551509, AA228329, AL041368, AL138265, AA653057, AA148489, AW023672, AA886584, T90706, R55847, AA644207, C06458, AA482711, AA483068, AA669251, R95171, AI679782, AI003743, AA501344, AA327782, AI433187, AA099892, AI802526, AA113186, AA365587, AC004491,

HBMSB19	271	847800	1 - 252	15 - 266	AC004149, AC007684, AC004540, Z86061, AF015171, S75337, AC004770, AF015160, AL031584, AC005778, AL009181, AC006312, AC006502, AL132712, A39972, U14718, AC005940, AC004885, U14717, AC004167, U14699, U14685, U14686, U14688, U14691, U14710, U14687, U14692, U12580, AL049777, AC004019, AC005291, AC003663, AL109733, AC007055, AC006211, AP000459, AP000311, AC004052, AL031588, AC005815, AC004832, AC003048, AF064866, AC007917, AF015167, AC004808, AC005399, AC007320, AL031904, AF015169, AC005772, U12583, AC006285, AL049557, AC005971, Z74696, U14707, AC006441, AC005385, Z84480, AL035089, AC004814, AC004831, AL132716, AC018725, AP000696, AC005280, AL031120, AC002331, AC005375, AL033525, AC005046, AL096701, Z98743, AC003003, U14695, U14705, U14701, U14702, AC004812, AC004884, AL031905, AC006001, AC003950, U47924, AC005751, AC005212, AC004596, AC005412, AC005585, AL137614, AC010197, AL049869, AF067016, AC006384, AL021391, AC004159, AF015166, AC007387, AC006071, AC006480, AF015170, AC006456, AC004989, AC000052, Z84479, AC004228, AC006011, Z69921, AC006984, AC004408, AC007377, AL078644, AL136504, AC004859, I35531, AC006019, AF015162, S75201, AC006057, AF015158, AC005999, AC006030, AP000497, AC005701, AL078621, AC000080, AL109758, AC006972, AC010722, AC009731, AL110502, AL021155, AF031078, AF140763, AC002349, AC005520, AL078580, AC007077, AC005041, AL050305, AF147277, AF055066, AL135746, AL133245, and AL031287.
HBMSK92	272	531156	1 - 114	15 - 128	
HBMSO15	273	847795	1 - 425	15 - 439	H53903, and AP000692.
HBMSO39	274	531158	1 - 206	15 - 220	AC006504.
HBMTF79	275	544889	1 - 119	15 - 133	
HBMTG05	276	932497	1 - 245	15 - 259	
HBMTM75	277	574515	1 - 317	15 - 331	AB017919.
HBMTTP84	278	703844	1 - 253	15 - 267	AI510796, AA351893, AI982994, AA847341, AA778580, AA455202, AI734193, AI791227, AI732911, AI884404, AI734158, AA581317, AA636077, AA843542, AI815425, AI002863, W45215, M77964, AI890283, AI207534, AI867012, AA729628, W02419, R79396, AI816073, AC006084, AC004820, AC002369, AC002558, AC005383, AC007014, AL009181, AL050308, AC003071, AC004659, Z98950, AL132987, AC002350, AC005200, AL049699, AB023049, Z95116, AL021918, AL020997, AL109613, AC002492, AC004816, AL096701, Z85987, AL035089, Z82190, AC007501, AL049828, AC005775, AL031368, AJ246003, AL021394, AC005553, AC005535, AL022322, AL121658, AL049838, AC005529, AC006211, AC005102, AL031587, AL049830, AC005574, AC002115, AF124730, AL079342, AF111168, Z83843, AC007686, AC000025, AL008582, AC005527, AL022578, AC005630, AC001644, AC004386, Z97876, AL117344, AC005089, AC005037, AC002316, AL133275, U51561, AP000275, AP000037, AP000105, AL020996, AC004987, U91327, AL049643, AL049709, AC005099,

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HBM TU03	279	924979	1 - 292	15 - 306		

						Z9885, AC004843, AL021155, AC009516, Z69705, AL031291, AC002310, AC008372, AF001548, AC004979, AC005331, AC004999, AC005768, Z83846, AC000026, AC004883, AC005193, AL035423, AL022721, AC006273, AC007878, AC002404, Z83822, AC001227, AJ003147, and AL035071.
HBM TW58	280	806670	1 - 651	15 - 665		
HBM TX29	281	689834	1 - 139	15 - 153		
HBM TX84	282	537385	1 - 338	15 - 352		
HBM TY82	283	523728	1 - 316	15 - 330		Z93017, and AL009181.
HBM UA62	284	557828	1 - 330	15 - 344		AI064768, Z98753, AL031681, Z95703, AC000354, AC007036, AL135746, AL109653, AP000516, U82672, AL133512, AL049648, AL033530, AC004986, AC002357, AL049554, Z83850, AC006152, AL022164, Z75895, AC010349, AL022310, AC004191, AB014088, AL096803, AL021812, AC002069, AC011604, AF121898, AC005323, AC006354, and AC004930.
HBM UD12	285	574796	1 - 306	15 - 320		AL122020.
HBM UF60	286	740606	1 - 311	15 - 325		AC007536.
HBM UG57	287	735024	1 - 303	15 - 317		
HBM UH62	288	752244	1 - 329	15 - 343		AL096791.
HBM UJ84	289	531159	1 - 243	15 - 257		AI312718, AC005023, Z95118, AC005041, and AL034548.
HBM UK59	290	712591	1 - 462	15 - 476		
HBM UN30	291	693337	1 - 559	15 - 573		AF015720, AJ229041, AC005829, AL031283, AC000134, and AL031255.
HBM UO10	292	953933	1 - 316	15 - 330		
HBM UO12	293	417210	1 - 178	15 - 192		AL022313.
HBM UO90	294	928078	1 - 311	15 - 325		
HBM UP35	295	531101	1 - 236	15 - 250		
HBM UT83	296	793052	1 - 462	15 - 476		AW080842, AI126237, AA033525, AI288602, AA070152, AI200312, AW293916, AI738708, AA033526, AW182578, AA961647, AA808104, AA884100, AA410505, AI635980, AA580797, AA748547, T71568, AI004853, AA975024, AI674097, AA988905, T82022, AL133609, AL137420, and Z94722.
HBM UV03	297	924916	1 - 394	15 - 408		
HBM UY32	298	959968	1 - 234	15 - 248		
HBM UZ96	299	574522	1 - 208	15 - 222		AL020995.
HBM VA83	300	529815	1 - 275	15 - 289		AL043165.
HBM VE14	301	545170	1 - 685	15 - 699		AA160290, AA357550, AW377670, AA046565, AA447158, W42824, and N21687.
HBM VI79	302	781686	1 - 227	15 - 241		AC020663.
HBM VI94	303	574511	1 - 191	15 - 205		
HBM VO02	304	920759	1 - 598	15 - 612		AL109839.

HBMAWA31	305	529678	1 - 406	15 - 420	AW291592, AA135499, AI949732, AI367157, AI040759, AA682731, and AA764743.
HBMAWA57	306	526863	1 - 202	15 - 216	AC002470.
HBMAWI35	307	706033	1 - 367	15 - 381	
HBMAWI01	308	959223	1 - 635	15 - 649	AI621074, AA648509, AW103842, AI133256, AF118079, and AL133216.
HBMAWL30	309	936058	1 - 309	15 - 323	
HBMAWL91	310	529837	1 - 202	15 - 216	
HBMAWQ85	311	765109	1 - 397	15 - 411	AW377503, AA007382, W23548, AA001311, H53191, and N78201.
HBMAWV93	312	574801	1 - 439	15 - 453	
HBMAWX74	313	573336	1 - 310	15 - 324	AC004223.
HBMAWZ14	314	573335	1 - 311	15 - 325	
HBMAWZ16	315	712832	1 - 482	15 - 496	AI436109, H27387, AI889289, AI027575, N79584, AA828426, AW014938, N79587, AI174444, AI143425, AW247147, AA826017, T59414, AW087276, AI434510, AI913074, AI351503, AI200849, AI921728, AI222784, H11717, AI246366, AI936789, AA281074, AI093047, AW004642, AI826923, AA857401, AI313190, AI589862, AI581002, T66176, H14297, AI313169, and AI658705.
HBMAWZ94	316	573348	1 - 334	15 - 348	
HBMAXE31	317	573323	1 - 298	15 - 312	
HBMAXF47	318	573324	1 - 66	15 - 80	
HBMAWG08	319	959766	1 - 405	15 - 419	
HBMAXH68	320	571361	1 - 584	15 - 598	
HBMAXL10	321	968054	1 - 385	15 - 399	
HBMAXM65	322	925570	1 - 467	15 - 481	Z55829.
HBMAXN39	323	705378	1 - 348	15 - 362	AI054090, AI246061, AI284543, AA297207, AI249853, AI251241, F33126, AI254770, AI133514, AI251944, AI251034, AI251203, AI251284, AI250552, T93105, AI690497, AA502098, AI300054, R51582, AI160786, AI223626, AA779667, AI421723, AI119156, AI119182, AW019964, W63553, AA378207, W81372, AA714011, AI866970, T08386, AW303098, AI570019, AI749306, AA558366, AW069227, AA492114, AA664126, AI368873, AA805989, H86579, AI889579, AI634187, AI457313, AA772704, AA745628, AA582746, AA491767, AA938727, F35684, AA657910, AA837771, AA831408, AI619994, AA584493, AA769141, AA302934, H95822, AA587215, AI858272, AW161016, H78984, W95552, AA078128, T64444, AA890060, T39230, AA568747, T51556, AA973913, AA244406, AW236277, N25079, AW392414, AL134940, AI110760, T61928, AW169390, U46402, AI650702, AA122310, AC007406, AL022726, AF196972, AC005881, AL022320, AC006270, AF178030, AC006576, AP000501, AC004813, AC009248, Z99128, AC005899, AC012627, U82828, AC006084, AC008123, AL049694, AL109963, AC002425, AC005157, AP000011, AL031432, AF196779, Z98304, AC005291, AL135744, AF165926, AC005516, AC005529, AL133246, AC004812, AC005519, AC005082,

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HBMXN69	324	731274	1 - 356	15 - 370	AJ934342, AI652289, AJ749542, AI708414, AI659752, AA521117, AI685658, AI469153, AA810054, and AA749006.
HBMXO08	325	959768	1 - 336	15 - 350	
HBMXP90	326	574802	1 - 576	15 - 590	AI206408, AI765081, AW117539, W76554, W47134, AI282130, R00077, AW139096, AI970492, F10866, AW003300, AI492386, AI473105, AI699748, R38163, AF007132, and AC006055.
HBMXR44	327	693123	1 - 400	15 - 414	AA094354, AL120141, U49973, Z99128, D83253, AP000150, AP000009, AC007869, AC007297, AL031781, AL022333, AC018633, and AC004382.
HBMXS38	328	706039	1 - 654	15 - 668	AA806368, and AI811425.
HBMXU37	329	787155	1 - 512	15 - 526	AA354804, H95288, and AC004472.
HBMXXW13	330	657241	1 - 408	15 - 422	AL035461.
HBMXXW73	331	764440	1 - 338	15 - 352	AA634933, and T63384.
HBTAE07	332	953607	1 - 543	15 - 557	AA618452, AA478355, AI284640, AA493695, AL046409, AA453558, AI133297, AL045808, AL046156, AI270117, AI345157, AA490183, AI583283, AW275510, T06754, AW438555, AI499588, AW149313, AA584167, AA775143, AA836811, AA483929, AL042753, AA938105,

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HBUAG42	333	676856	1 - 349	15 - 363	AF108138.
HBYYA17	334	924209	1 - 213	15 - 227	AI310343, AA559205, and J03059.
HBYYAB40	335	463488	1 - 307	15 - 321	AA713872.
HCFAA38	336	576731	1 - 408	15 - 422	
HCFAC84	337	869259	1 - 626	15 - 640	AL031733.
HCFAP63	338	689719	1 - 404	15 - 418	
HCFAT85	339	728254	1 - 333	15 - 347	
HCFUA41	340	576064	1 - 452	15 - 466	AA527109, AA533660, AF205588, Z83820, and Z82200.
HCFUA74	341	576069	1 - 201	15 - 215	
HCFVAV46	342	924086	1 - 515	15 - 529	AL110393, H58351, AA564859, H58740, AW074398, AW023672, AA714595, F37169, AI561335, AW086257, AA626678, F37223, AA878495, AA558697, AA515435, AI205126, AA366035, AA654627, AA626747, W60516, AW302322, H64777, AA077817, AA748121, AW268338, AI648558, AA355281, AI867044, AI198376, AI284640, AW088058, F36273, AI053907, AA652057, AA649642, AI865364, AA308806, AL036523, AA317170, AI016000, F19258, AA434484, AA095511, AA605274, T40617, F32705, AA663922, F36373, M78150, AI252884, AI110770, AI446638, F29989, AI888926, AA342901, AA318652, AW406447, F25135, AW301937, AI281881, AI281903, T40338, AW265654, AI567577, AI358343, AI026770, AW419262, AI200051, AI053672, AI435544, F18974, AA059154, AW166815, AA127354, AW151884, AA377730, AI471543, AI358229, AI471481, AI924251, AI061334, AW406755, AA321311, AA125788, AI824562, AW080134, AI688846, AA515224, AA127353, AA831388, AI365988, AA745410, AA908687, F36404, N71724, AI334443, AI963720, AL120483, AI298710, AI654588, AA569187, AA913549, AI630203, AA663306, AA177061, AA704643, AA338431, AL120295, AA557879, AA565666, F28576, AA446955, AA715270, AW339687, AW276827, AA661948, AI446464, AA904218, AI654529, AA483034, AI569086, AI350211, AW193265, AI286356, AI144330, AL042753, AA173238, F35113, AI635272, AW264973, AA650244, AI343173, AI375710, AA559290, AA327323, Z98473, AI623898, AW193432, AA176924, AI341664, H56013, AA610491, AI160582, AA578141, W95976, AI890918, AL046409, AI709365,

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HCFAW03	343	924532	1 - 330	15 - 344	and AF217403.
HCFAW03	344	784950	1 - 254	15 - 268	AI952593, AA402934, and T24885.
HCFAW03	345	576058	1 - 166	15 - 180	AA680371, and T85563.
HCFAW03	346	853961	1 - 176	15 - 190	AC005969.
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HCFBBI14	347	658542	1 - 233	15 - 247	AA223831.
HCFBBI14	348	850449	1 - 141	15 - 155	AF172244, and Z74023.
HCFBBI14	349	953506	1 - 286	15 - 300	
HCFBBI14	350	870890	1 - 551	15 - 565	AI127475, AI871007, AA142876, AI523587, AI830621, AW134689, AI825831, AA773904, AI862655, AA143146, AI768600, AA576383, AI307774, AW274750, AI916645, AA633463, AI334590, AI867665, AI867677, and AW152392.
HCFBBI14	351	576018	1 - 330	15 - 344	
HCFBBI14	352	576669	1 - 466	15 - 480	
HCFBBI14	353	959617	1 - 289	15 - 303	
HCFBBI14	354	576126	1 - 628	15 - 642	AA553332, AA343810, AI354333, AA496309, AA745302, F01222, N70957, AA757869,

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HCFBO39	355	835926	1 - 423	15 - 437	AF031077, AF031076, AF031078, and AF030876.
HCFBO76	356	577218	1 - 301	15 - 315	
HCFBR92	357	576864	1 - 463	15 - 477	
HCFBS25	358	828076	1 - 326	15 - 340	AI028522, AI040333, and AI055988.
HCFBS73	359	506244	1 - 484	15 - 498	F19258, AI820743, AI003172, W60516, AI003743, AA551509, AL038785, AW104748, AI365988, AA635417, AI205126, AI762575, AA229785, AI914706, AI350211, AA584749, AA557325, AA483204, AI962050, AA340003, AI917271, AW265294, F29989, AW166815, AA077935, AI358229, AI904894, AI567674, AW339687, AA856981, AI635272, AI815000, F28576, AI474713, AA973575, AI569086, AW080134, AI038279, AW337985, AA515051, AI079910, AI133636, AW130799, AI445436, AI890052, AI963786, AI929531, AL079645, AA482711, AI469003, AI433187, AI890923, AW162049, AL042856, AI679782, AA713815, AA077817, F31619, AA344959, AL119391, AA579184, AA077952, AL041368, AW440836, AA558269, AW029038, AW118011, AW105538, AI625244, N99715, AL040913, AW088202, AA228329, AI421213, AI471729, AI358343, AW003434, AI866807, AW264969, F36273, AL048144, AI499094, AI051551, AW069807, AI049722, AI339850, AW193432, AI284640, AW074398, AI149915, AA904218, AW406755, AL041412, AW088616, AI244254, AL120674, AA340960, C06327, AA365587, AI064952, AW265197, AI608626, AL046746, AI547286, AA743956, AI653515, AA228420, AI282907, AA837755, AA339076, H88666, AI251002, AW275664, AI305766, AA639025, AA601270, AI053535, AA745410, AW338500, AI963720, AI761471, AW327360, AI565873, AI468134, AA366035, AI922840, AI886060, AA078483, F31204, AI341664, AA826032, AI590038, T12272, AA501344, T29180, W49488, AI610159, AA533138, AI934307, AA516326, T55510, AW407220, AI720141, AA601218, AA381665, AA515128, AA365144, AI286264, C05755, AI688846, AA658235, AA826303, R89296, W38648, AA580662, AW131034, AI291047, AI935827, AI918421, N58729, AI886365, AI827234, AW151016, AW023672, AI821776, AW157005, AW193265, AI028510, AI613280, AW103239, AW419118, AA987962, AA669961, AA843450, AI637587, AI082510, AA133986, AI951889, AI951928,

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HCFBU01	360	916703	1 - 543	15 - 557		AC011422.
HCFBU38	361	707620	1 - 273	15 - 287		AA654338, R11792, R18553, AA488229, and R33569.
HCFBU84	362	573546	1 - 447	15 - 461		AI817736, AI084181, and AI918987.
HCFBU85	363	576010	1 - 255	15 - 269		AP000315, AP000118, and AP000165.
HCFBW13	364	828042	1 - 458	15 - 472		Z42409, R59109, W78198, AW276841, R14684, AC004013, AJ010770, AB018346, AF091711, AF083037, AB019691, and AJ131693.
HCFBY02	365	920340	1 - 409	15 - 423		AI859280, AW392291, AJ342622, AI598003, and AW167154.
HCFCA31	366	725700	1 - 421	15 - 435		R09578, AA676513, H10338, AA313594, AA336022, N25123, T32628, AL135366, N56063, Z42875, RA7343, AA411514, T55290, H40743, H40750, AA402101, AA496316, AA320228, AA040891, AB027196, and D87451.
HCFCB67	367	751764	1 - 445	15 - 459		AA862312, AI564185, AA702605, AA469451, AI368862, AI628288, AI904586, AI904594, AI742168, AA847499, AL042667, AL042670, AI679294, AW169038, AA481887, AI679871, AA827771, AI143840, R93642, AI623364, AF003626, AC006277, AC005534, AC002542, AL049759, AL021940, AL031848, AC005512, Z93930, AL021877, AC005488, AC005666, AL096712, AC004019, AP000133, AP000211, AL050332, AF134726, AC004913, AC007676, AP000503, AL034420, Z99716, Z97632, AC005280, AC007536, AC004596, AC002316, AC007731, AC005500, U47924, AC006441, AL033527, AC004526, AC000025, AL096701, AL022336, AC005971, L47234, AC008124, AL035420, Z95114, AF064861, AP000140, AC005529, AC004033, AC008372, Z98742, AC000120, AL008718, AL022320, AC005899, AF190465, AC005696, AL049776, AL109827, AC006207, AC005015, AC003977, AF048729, AF109907, AP000501, AC005932, AL135744, AL133371, AC009247, AL034429, Z82190, AF031078, AC004150, AF030876, AC002115, AL132987, AP000088, AC006121, AC005300, AL133245, AC007541, AC003950, AC004825, AL035703, AC009044, AL133233, Z84496, AC002470, AL022313, AC007308, AC006487, AC002558, AL022163, AC002425, AC004821, AC006455, AL022322, AC006273, AP000432, AL050318, AF111169, AC007878, AP000513, AL049869, AL096699, AC007066, AC005821, Z98044, AL031680, Z83819, AC005520, AP001052, AL031780, AC005625, AC007664, AC005871, AC006312, AF002223, AL031597, AC002477, AL031005, AL031846, AC005255, AL021546, AC005060, AP000030, AC006538, AC005067, AC005839, AC006023, AC005232, AC008249, Z93020, AC002543, AL035683, AC007546, AL020997, AC005527, AC005484, AC005881, AL021391, AC005841, AC006111, Z84480, AB017602, AC005399, Z82198, AC005940, AC004228, AL035079, AC004796, AC005326, AL008635, AF001549, AL139054, AC005304, AL034417, AL121653, AC005237, AL079342, AC004750, Z82097, Z99128, AC005924, AF108083, AC000118, AL133163, AC005412, AC005920, AC005568, AL109980, AC004841, AC005546, AC004662, AP000049, AP000116, AC002472, AC008122, AC004832, AC003684, Z85987, AC004686, AF053356,

						Z93023, Z93096, AC012384, AC006241, AC005231, AC004024, AC002310, and AC006042.
HCFCC57	368	577375	1 - 390	15 - 404		AW341274, A1458691, A1802196, and AA937243.
HCFCC68	369	753089	1 - 276	15 - 290		
HCFCC94	370	670538	1 - 431	15 - 445		
HCFCD44	371	883973	1 - 396	15 - 410		AC005776.
HCFCF47	372	894415	1 - 382	15 - 396		AC009731.
HCFCH47	373	720400	1 - 267	15 - 281		A1086865.
HCFCI21	374	671028	1 - 179	15 - 193		AC003072.
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		970835	1 - 846	15 - 860	H05227, AL134081, AI908615, and T79353.
HCFCM12	375				
HCFCN66	376	850422	1 - 422	15 - 436	H79453, AA053463, AA302978, AI310992, AI300818, AI619994, AI962030, AW083934, AW008074, AW270768, AI446205, AA480486, AA469230, AA486277, AW083678, AA176604, AA862029, T93109, AA228778, AI267884, AA302661, AI653776, AL039309, AW082104, AI250552, AI251034, AI185394, AI254770, AI284543, AI054090, AA501655, AA515351, AI915081, T94072, AI309059, F17537, AI583291, AI078409, AA904211, AI291037, AI567676, F32248, AA683069, AI251284, AI251203, AI223626, AI249853, AI421755, AW242031,

AA487209, AI271762, AA354695, AI049504, F35684, AW195271, AA420703, AW105729, AW192518, AA429481, AA541532, AW073934, AI310343, AW194046, AA135761, AI889579, AA410788, AW277174, AI216151, AI366555, AA573000, AI050076, AA553594, AA728894, T48723, AW341882, T47075, AI082510, AA669961, AA664126, AA568314, AA745628, AA513884, AW419389, AA579184, AA525253, AI251241, T41134, AW302017, AW023111, AA484892, AW089950, AW341955, AI278972, AA704393, AI356440, AI306717, AA768179, AW327751, AI521019, AI984168, AA947370, AA349606, F3262, AI254779, AA365586, AI929531, R67701, AI872229, AA599710, AI268818, AI471455, AI340832, AI031759, AA738014, AA721645, T93105, AA278496, N71619, AA715351, AA728861, AI572680, AA493840, AI300054, AW169038, AI049722, AF111168, AC005280, AI050321, AI049843, AF003626, AI133246, AC004834, AP000030, AC007510, I34294, AP000556, AI022333, AC005015, Z98051, AI031985, AI022326, AC004491, AC005696, AI031280, AC005327, AC005005, AI035587, AC005841, AC006275, AI031121, AC004552, AC004623, AC005288, AI008726, AC004990, Z69719, AC003098, AP000354, AP000298, AB001523, AC006241, Z68276, AF039907, AI133245, AP000252, AC005031, AC005839, AC005559, AI133448, AC000353, AP000212, AP000134, AC004999, U80017, Z85996, AC005914, AC004254, AC003688, AC005037, AI139054, AI096701, AC006288, AC005632, AF001549, AP000044, AP000112, AI096775, AC002381, AC002401, AC007731, AC005261, AC005500, AC005901, AP000691, AC007688, AC007690, AC005902, AC008154, AC006597, AI035413, AC006487, AC006539, AC006370, U81031, AC000028, AC002375, AP000692, X54156, U94788, AI021155, AC007565, U73330, AI022398, AC007421, AI008730, AC005231, AC007766, AC006511, AI034395, AC003962, Z97056, AC004973, AC002472, AC002477, AC002119, AC006450, AC006042, AC006468, Z69917, AI049873, Z98885, AC005972, AI109613, AC005788, AI031393, AC005913, AF045555, AI246003, AC004462, AC004796, AP000688, AI050318, AI031588, AI035652, AC004878, AC004856, AC003007, AF064866, AC009247, AC007225, AI031255, AC003690, AC005365, AI031229, AC006538, AI031685, AC006116, AP000512, AC004150, AI008719, AC006544, AC004659, AC004771, AC004643, AC007686, AI121754, AP000501, AC004752, AF047825, AF053356, AP000300, AI080317, AC004103, Z84469, AP000116, AC005800, Z82208, Z93017, Z98047, AI133355, AP000151, AI049780, AI008720, AP000511, AI049631, AC007243, AI034420, Z96074, Z82244, AC003071, AC005004, AC007312, L77570, AC007546, AC006455, AI035089, AC002288, AC005207, AC005520, AI121655, AI109799, AI021808, AC002312, AC007664, AC005828, AC004590, AC008989, AC004033, AC005874, AF134471, AI035455, AC004983, Z97989, AC007226, AP000152, AC007429, AC002527, AF064857, AC003043, AC008064, AF001550, AC004797, AI035695, AC005736, AC003667, AC002492, AC011456, AC002565, AC005220, AC004966, AC005778, AC004019, AC008045, AC004814, AC006084, AI121603, AI024498, AC005324, AP000113, AP000045, AC005837, AC005777, AC002563, AC005239, AC008044, AI031667, Z93241.			
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HCFN81	377	576871	1 - 581	15 - 595		R13709, Z44811, and AA084016.
HCFN14	378	577277	1 - 318	15 - 332		
HCFN31	379	764750	1 - 431	15 - 445		AL043121, H26563, AA774273, and AA480145.
HCFN76	380	862682	1 - 552	15 - 566		AL033547.
HCFN73	381	575988	1 - 349	15 - 363		H80303, AI809174, AC005091, AC004671, AL031283, AC020663, AL034417, and AC002527.
HCFN13	382	576709	1 - 325	15 - 339		
HCFN48	383	720938	1 - 363	15 - 377		
HCFN10	384	961270	1 - 411	15 - 425		
HCFN19	385	671507	1 - 550	15 - 564		AA126608, and AC003959.
HCFN79	386	575996	1 - 350	15 - 364		
HCFN28	387	968304	1 - 344	15 - 358		
HCFN28	388	850564	1 - 517	15 - 531		AW294229.
HCFN78	389	773685	1 - 659	15 - 673		AA284537, AI161251, AA703386, AI144156, AI080716, T95314, H44601, R54003, R53410, AA707567, T95396, AI863960, AA705879, AA444145, AA443965, AL045360, AI819631, AI862146, AL119399, AI336575, AI289542, AW020397, AL043168, AI253379, AI620056, AW162194, AI698391, AI633125, AA587590, AW051088, AL046466, AW151893, AI638644, AI345415, AI890907, AI345612, AI590043, AI589428, AL042382, F27788, AL037454, AI800341, AA806719, AI345416, AI565172, AL043152, AI679550, AI567582, AI802542, AL042544, AI500061, AW089844, AW274355, AI884318, AL079794, AL119457, AI929108, AI637584, AI889189, AI470293, AL041862, AW152182, AI345688, AI923989, AI567513, AW051059, AW007309, AI479292, AI538850, AI866469, AI890391, AI538764, AL036187, AI817523, AI702073, AI473536, AL119324, AI433500, AI499890, AW129264, AI636588, AI540458, AI954183, AW129659, AI673363, AL040241, AA808175, AL110306, AI267162, AI432644, AI870192, AI969655, AW301344, AL038505, AI254814, AW059766, AA580663, AI446775, AI567769, AI469425, H89138, AI491710, AI270183, AI690813, AI433157, AI589134, AW021717, AI539800, AL119511, AI538885, AW022300, AL046618, AI282679, AW104056, AW021178, AL037582, AI245008, AL037602, AI540674, AI685080, AA975952, AW079572, AC008151, AF146191, AC005968, AL050309, AC007458, AL050322, Z82206, AL050306, AL031732, AC005296, AC007392, AC007298, AC002464, AL035258, AL031904, U95739, AC018769, AC018767, AC002287, and AC009286.
HCFLE44	390	576679	1 - 339	15 - 353		
HCFLE95	391	945122	1 - 576	15 - 590		AI697165, AI434288, AA642239, AI818876, AA970105, AI271514, AI571352, AA411035,

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HCFL96	392	579039	1 - 330		15 - 344	AA978266, AL049780, and AC007055.
HCFLG84	393	711243	1 - 425		15 - 439	
HCFLI49	394	722269	1 - 525		15 - 539	
HCFLJ40	395	576068	1 - 324		15 - 338	
HCFLP31	396	698139	1 - 460		15 - 474	
HCFLR55	397	576043	1 - 243		15 - 257	Z84475, and AC006924.
HCFLR83	398	576054	1 - 576		15 - 590	AL043019, AL042433, AI142132, AW372827, AI134902, AI142137, AL134524, AI119401, AI119443, AL042450, AI142139, AL042896, AL079687, AL039912, AL134525, AL119522, AI119396, AL042978, AL042544, AL042614, U46351, AI134536, AL042965, AI042975, AI119418, AL037205, AL042984, AL042542, AI119464, AL043033, AL043029, AL042551, AI119511, AL043003, Z99496, AR069079, AR043113, AR066494, and AR060234.
HCFLT42	399	576040	1 - 396		15 - 410	AA281808.
HCFLU12	400	970849	1 - 506		15 - 520	AI096816.
HCFLW58	401	964870	1 - 513		15 - 527	AA082673, and Z36960.
HCFCMC42	402	670519	1 - 437		15 - 451	AI040051, AW438542, AI824541, AW021917, AA130647, AI004591, AI270476, AI061313, AA225044, AA878140, AW265090, AA582554, AW167154, AW103383, AI623563, AA862243, AA653139, TS0676, AW105729, AA665181, AA610509, AI821044, AL039187, AI590458, AW302048, AA570740, AA483606, AI275183, AA955031, AW075132, AA568204, AI536625, AA658844, AA574442, AI745473, AA879053, AI598003, AA601278, AI559645, AA528480, AA664604, AI292236, AA528390, AA613627, AI590499, AI338426, R94354, AA121777, AI276298, AA191418, AA970967, AI017251, AI791659, AI753365, AI859280, AA598545, AA579566, AA224995, AA584482, AI654285, R94288, AA347114, AI244356, AA581460, AA572685, AW161636, AA618316, R96643, AC005822, U50871, M87914, AC006512, AL035588, S42653, AP000555, AI131757, AC005399, AL049872, AF053356, AC005341, Z99716, AC005529, AC005057, AP000212, AF196779, AC005778, AL109623, AC005747, AC005899, Z69917, AC006965, AC002470, Z95114, AF134726, AL022069, AC005089, AC005907, AC004408, Z98884, AL022313, AF045555, AL009181, AC005971, AC005041, AC006480, AL049557, AI021978, AF187320, AC009498, AP000512, U85195, AL109952, AP000552, AC007685, AC007227, AC005391, AC007421, AC005288, U47924, AE000658, AL008726, AC006013, AC005588, AC002558, AC005225, AL139054, AC006600, AC004975, AL034555, AC005746, AC005484, AL121694, AC003665, AL035072, Z82901, Z82214, AL050308, AC006953, AC005082, AB022537, AC004099, Z97056, AI034420, X84664, AC007052, AC007686, AL034548, AL033521, AC004386, AC005562, AL096776, AF196969,

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HCFMD15	403	975075	1 - 657	15 - 671	
HCFMD23	404	676003	1 - 324	15 - 338	
HCFME27	405	576815	1 - 423	15 - 437	AL031283.
HCFMF47	406	973243	1 - 567	15 - 581	
HCFMF64	407	773342	1 - 812	15 - 826	AA243815, AW173441, AW173520, AA354361, AW082254, AI628870, AI936417, AI640772, AW293620, Z32860, AL049667, and AL022398.
HCFMG14	408	576063	1 - 354	15 - 368	
HCFMH12	409	970843	1 - 457	15 - 471	AI446464, AI284640, AA649642, AA515435, AW440976, AW236342, AI264743, AW383634, AA350859, AI623696, F32894, AA483034, AI273185, AI688846, AI205126, AA318652, H64777, T63104, AA470985, AA365347, AA558697, AA535661, AI053672, AA886584, AI064864, AA077817, AI471481, AJ910609, AI251002, T07287, AA557879, AW193265, AW383542, AA605274, AA747472, AA513999, AW193432, AI334443, AW088058, AA593060, AW089810, AW272758, AW438643, AI350211, M62249, AI830390, AA177061, F36273, AI110770, AA601892, AI648558, R13151, AA229785, AI832782, AW276827, AI824562, AI590689, AI590958, AA714453, AW338086, AL046409, AI040313, AI608626, AF150152, AA331025, AI085719, AA368936, AI049722, AI281881, AW383608, AW383628, AA328591, T06556, AW383440, AA369477, AI431303, AW383586, AA720702, AI282336, F19012, AA364224, AW406447, AI986251, AW029038, AW383605, F24284, AA593247, AW383624, AI962050, AI341664, AW383606, AI281903, T40077, AI286356, AA653221, AL120674, AI537955, AW261871, AA252763, AI287528, AI653905, AI367401, AW419262, AI367420, AI890923, AI352078, T08638, F37169, AI291124, AI499938, AW272641, AI687962, AA366820, H15679, AI049940, AA300016, AW272925, AW339568, AI929531, AI805380, AI418327, T40338,

AI702095, AW151896, AI041690, AI133164, AI186470, AI720431, AI148245, AI291268, AI358571, AI684208, AI340453, AW249835, AW383455, AW383629, AA084070, F18974, AI431232, F31204, AI287651, AI537030, AI753567, AA632407, AI677668, F33511, AW082063, AA587604, AA704147, AA679672, AA726172, AA719805, AI282832, AW166815, AW168342, AW025031, AA441788, AA626404, AA491762, AA745410, AI434695, AW162049, AA443695, AI613280, AI754955, AI623898, AI339850, AI339440, AA338522, AI287451, AI133636, AI567674, AW406162, AI367471, AI801591, AI270117, AA515051, AI364020, AW022379, AA365302, AA079101, AA572975, W79504, AI341548, AI679782, T07451, AA100372, AA526779, AI904894, AW338292, AI354587, AI917271, AI281465, AI252554, AI538928, AA102047, AI613473, AI268812, AW383596, AA977743, AI079812, AW274349, W47444, AA664535, AA321311, AW023672, AW270270, AI371070, Z93784, AL049869, AC003983, AC004933, AC007056, AC005220, AL031846, AL035071, X87344, AC000067, AL035667, I51997, M87916, AL022324, AC006062, AC006965, AC006055, AL096867, AC004947, AC006212, X75335, Z84476, AB000882, U57005, U18393, AC004878, U18394, AL050308, X55928, U18390, X55932, AC005013, S70697, AC005251, X54180, AC005909, U57009, U57006, AC007126, AC005962, U91324, AL078463, U85195, S75337, M87919, S70694, AP000567, Z98256, AL032821, U02054, U02063, AC005348, AE000658, AL096773, AC004638, X55925, AC004963, AL133246, AC005015, AC005389, AF003627, AC004896, AC005246, AL034548, AL035681, S70707, AF147277, U18392, U02058, U18391, AC006925, AL031680, AC006370, AC004158, Z98946, AP000431, AB003151, AP000688, AC005502, AC002119, AC004537, AF196779, U18395, U14719, AL109733, D83989, AL049636, AC005207, AC005915, U14701, U14695, U14705, X55924, AP000346, U14699, U14702, U14710, U14685, U14686, U14689, U14691, U14692, U14707, L81648, AL021453, AC006057, AC005145, AC005297, AL049710, U14718, AC005023, AP000302, Z68165, AC004815, AC007919, X55930, AC003029, AC002056, AC006210, Z84474, AF090944, AF077058, AC006336, AC005019, AC002366, AL031311, X55926, AL133238, AL049835, AC004381, U18398, AC004890, U14708, U02048, AP000114, AP000046, AC005581, AC000124, U14703, U14688, U14687, AL035407, AC005544, AC005341, AP000193, AC007100, Z30993, AL121603, AC006417, AC004220, AF038458, AL008728, AP000050, AL031257, X55922, AF015156, AC007384, AF053356, AL049776, AP000311, AC005696, AC004222, AC006996, Z94277, AC005082, Z49816, AL008718, AC003013, AC007792, AF015147, AP000117, AC006241, AL008723, AC005971, AL078624, AP000017, AP001053, X54175, AL031347, AF161343, AL008709, AC003007, AL080242, AC005284, AC005763, AL008635, U63721, AC005552, AC004496, AL031589, AC008119, AC007421, AC006596, AF029308, AL022476, AC006026, AC005873, AC006536, U14700, AC004668, AC002086, AL080285, AL031770, AC004859, AC005332, U14684, U14693, AC006511, Z99754, AF111169, AC005575, U18396, AL121653, AC005699, AF094481, AP000557, AC020663, AB020859, AC005003, AL022394, D42052, AP001043, AC004895, AL035494, AC005412,				
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HCFMJ70	410	576096	1 - 342	15 - 356		AA493118, and AL135744.
HCFMK25	411	576081	1 - 256	15 - 270		
HCFMK27	412	576094	1 - 361	15 - 375		AC006388.
HCFMK49	413	576098	1 - 409	15 - 423		
HCFMK62	414	576097	1 - 423	15 - 437		AL031594.
HCFMK63	415	506251	1 - 365	15 - 379		
HCFML42	416	576667	1 - 451	15 - 465		
HCFMM81	417	506250	1 - 468	15 - 482		AC006406.
HCFMN07	418	953522	1 - 150	15 - 164		AC006978.
HCFMQ64	419	805822	1 - 664	15 - 678		R16166, AW245400, AI092564, AI298418, AI190180, AL135607, AA255476, AW341937, AA774687, AA232248, AI675174, AI356983, AA770006, AI500630, AI200144, AI339987, AW071871, AA350500, AA732754, AI086463, AA055479, AI080604, AI591153, AI090505, AI090526, AI619931, AI151262, AA765701, AI015327, AA173394, AA257977, AI857270, AW058653, AI858857, AI743631, AW131669, AI361482, AA171810, AA621676, AW072043, AA159603, AA165670, AA357206, AA070895, AI083788, AA643264, AA699650, AA373130, N29760, AW248832, AI401838, AI696781, AA086047, AI829320, AA232744, R44869, AA133807, AI089956, F09118, AI352487, AA369978, AA486761, AA182536, AA128868, AI699007, AA134215, AA977086, AI885043, AA232537, AA954867, AI086697, AA256882, AA457397, AA865872, AA757809, AA811925, AW377769, AA805830, AW006314, AI758593, AA045484, AI246878, AA421465, AI679033, AI587487, AI572423, T30157, AA515407, AW193414, AW085830, AI672912, AW196633, AA527495, AA568558, AA026270, AA594129, AI569433, AA864390, F03978, R51276, AW304405, AI017824, AI061053, AI074649, AW009091, AI560098, AA999878, AI888289, AI097160, AI587320, AW002779, AA725226, AI559525, AI017407, AI741332, AI911638, AI685232, AI890180, AW295035, AI991285, AW084565, AI859307, AA947282, AI090794, AI744955, AW182337, AA844680, AA535324, AI014459, H28345, AA357685, AI143713, R35871, AW129646, AA457115, AW044140, R67967, R26888, AI660218, M79078, AI742893, AI436778, AI718841, AW292472, AI818656, AA421496, AA664765, AA621134, AI719132, H65810, N74909, AW087942, AA457447, and AI811113.
HCFMT62	420	954213	1 - 560	15 - 574		
HCFMY85	421	933017	1 - 298	15 - 312		AC006479.
HCFMZ17	422	664132	1 - 475	15 - 489		AW362709, AF165294, AJ012376, and AF165281.
HCFNA30	423	772262	1 - 129	15 - 143		
HCFNB62	424	576446	1 - 336	15 - 350		AW002831, R69527, AA713735, AL118925, AA808982, AA745302, AA335519, AA429481, AW381847, AW381904, AA714073, AA364006, H43183, AA496309, AA577141, AA192366,

HCFNK43	425	973548	1 - 693	15 - 707	AL207476, AA297698, AA676875, AA587078, AI915081, AA295865, AA295874, AW080215, AA367388, AA363027, R52008, AA477517, T83057, AA224807, H89581, AW117723, AA663074, AA522500, AI439393, AA630122, H43771, AA532875, AI271985, AI342183, AI798407, AA441810, AA728939, AA715418, AA225358, AW157731, T07346, AW377893, AA772704, AA513125, AA525807, R87275, AI271766, AI368732, AA715075, AI870453, AW074497, AL021368, AC000091, AL035405, AL022336, AF111168, AC008040, Z49236, AC004883, AC005829, AC007227, AC000378, AC006505, AC004851, AC005726, AC007308, AC008928, Z97056, Z95116, AC000353, AL133246, AC002126, AC006239, AP000555, AC002115, AL035249, Z98950, AC007546, AL031230, AL031905, AC007652, AC004703, AC005914, AP000103, AP000032, AL133448, AL031591, AJ251973, Z99943, AC005952, AL049758, AF196779, AL031848, AF002223, AP000704, AL021453, AC003042, AC002070, AF196971, U62292, AC006965, Z98884, AL021578, AC007637, AL023284, AC005088, AL117694, AC002511, AC005763, AL022238, AC005488, Z73900, AP000008, AC009516, AC006146, AC003663, AC006486, AL078581, AF196970, AC004821, AL031255, U95741, AF042484, AC004531, AC006111, AC005609, AC005874, AF134471, AL021977, AC002404, AL050308, AP000030, AC004583, AC004223, AC003108, AC005920, AP000269, AI135960, AJ131016, AC004228, AC003957, AF030453, AC005753, Z93930, U63721, AL080248, AL035659, AC004687, AF111170, AL022312, D87675, AC004611, Z84469, AF207550, AL117344, AC009802, AL008715, AC008055, AL035086, AC004098, AL049872, AL117258, AC004805, AC002563, AC004644, Z82206, AC005102, AC005086, AC002477, AL031587, Z85987, AC006463, AL020997, U07000, AL022311, AF067844, AL009172, AL133445, AL049843, AF001549, AC004967, AP000212, AP000134, AC004125, AC005722, AC004030, AC004150, AC006163, AC005778, AC004760, M87889, AC005081, AD000092, AL049692, AC005924, AC005531, AF006501, AF064861, AC004794, AL023879, AC006312, AC005409, AC002565, AC010205, AC005206, AL049709, AC005899, AF196969, AC002400, AC006014, AF039906, AC004985, AC002470, AB023051, AC006449, AC005736, AC020663, AL008726, AC007363, AC005231, AC005972, AC004991, AC005755, AC006165, AL049793, AC006509, AC007565, AL031659, AF176815, AC007225, AC005331, AL121825, Z84466, AC002551, AL109798, AC002314, AC005244, AC004881, AL022396, AC005229, AF001550, AC005332, AC002492, AP000494, AC005667, AC005412, AP000689, AC007065, Z95152, AP000556, Z93023, AC007226, AL049776, AD000812, AB016897, AC002559, AC006088, AC005756, AL122020, AL049779, AC004983, U91323, AL132987, AL109801, AL049569, AP000509, AC004552, AC005011, AC005225, AC004770, AC003343, AP000014, AL031258, AL021154, Z98036, AL031284, AL049646, AL022320, Z93020, AC008116, AL031276, AC005786, AL031056, Z97630, AC004841, AC008134, AC004033, and AC004148.
	426	576008	1 - 359	15 - 373	
HCFNK43	425	973548	1 - 693	15 - 707	AC005999, AL031012, AL078602, AC002485, AL022164, AL031429, and AC005539.
HCFNO55	426	576008	1 - 359	15 - 373	

HCFOQ04	427	615351	1 - 888	15 - 902	T57391, N26420, AW340665, AI827647, AA280976, AA521364, AW340711, AI217472, AA429950, AW274378, AW340146, AI970154, AA906042, AI290997, AW188032, AC006208, and AJ003081.
HCFOB11	428	967196	1 - 126	15 - 140	AA648299.
HCFOE38	429	576005	1 - 302	15 - 316	
HCFOF90	430	561625	1 - 529	15 - 543	AI801107.
HCFOG82	431	576007	1 - 380	15 - 394	AA229738, and AA229023.
HCFOH56	432	577114	1 - 385	15 - 399	T71466.
HCFOI11	433	967195	1 - 316	15 - 330	AI066646, AI375684, AI755202, AI720301, AW130427, L42230, AC002128, AC005808, AC005327, AI031965, and AC008994.
HCFOJ96	434	796104	1 - 482	15 - 496	Z30202.
HCFOO18	435	575965	1 - 387	15 - 401	
HCFOP42	436	460824	1 - 537	15 - 551	AA480486, AA469230, H81700, AA468356, AA502532, AW238495, AA018923, AI537800, AI609972, AA021561, AA768179, AA608561, AA362349, AA229159, AW392414, AA857812, H86221, AA429481, AA829036, AI267356, AA728861, H99700, AI279417, AA610233, AA773881, AA599080, AI648514, N91711, AI738863, AA558404, AI459733, AA715351, AA601680, N41775, AI267450, AA601212, AW302017, AI185394, H84412, AI471455, N70449, AA564925, W28961, AI280535, AA573000, H24957, AI340858, AI718323, AA376896, AI687343, AW440368, AA654482, F00688, AA351808, AA197019, AI583466, AI306232, AI251576, AA302661, AA297443, AI340700, AA302978, AA629852, AA228979, AI929796, AI933716, W63553, AA457754, AW328331, AA229823, AI253376, AW188742, AW150781, AA946848, AA507675, H67064, AA019003, AW328330, AI932871, H59651, N28624, AI306717, AI137946, AW274191, AA610381, AI249365, AI041375, AA362348, H58293, R69819, AI282629, AI249688, AA515168, AA648569, AC005318, Z95326, AI035088, L44140, AC007993, AC004859, AI133163, AC007056, L77570, AF130343, Z81007, AI080243, AP000503, AI021707, AB002345, AC004856, AF134726, U73644, AC004638, AC004985, AC000003, AC005005, AC005632, AI109967, AI008719, AC002306, M87889, AC006512, AI035400, AI034553, AC004646, AC005768, AC002985, AF207550, AF111168, AC004525, AC006455, AF111169, AP000348, AC005225, AP000349, AI023883, AC004587, AC005189, AC005696, AI096678, AC002350, AC004167, AC002064, AC003108, AC005027, AI023655, AC005569, U96409, AI109758, AC005207, AC005004, AC005071, AI022326, AC003007, AI031584, AP000350, AP000343, AP000555, AI022718, AC006050, Z94801, AC007057, AI049872, AC004817, AC002400, AI049569, AI009050, AC006017, AC005480, Z85987, AC009300, AC006315, AI121757, Z83820, AJ009610, AP001060, Z68285, AP000362, AC006948, AI118497, AI022316, AI096791, AI034555, AC005952, AC007308, AC004030, AF053356, AC002470, AC006013, AP000354, AC007684, AI031685, AC002302, AB015355, AC006509, AI035448, AC006360, AI121653, AI035458, Z70280, AC004967, Z95115.

HCUP46	437	927654	1 - 390	15 - 404	AL049540, AP000229, AL034420, AC002310, AL117337, AC005483, AC004855, AL121603, AL133500, AF141308, AL034374, Z97989, Z47046, AB020878, AL049759, AC005386, X58139, AF227510, AC007314, AC005666, AC004832, AC006207, Y10196, Z98257, AL031228, U91318, AC005907, AC004134, AC006121, AC003982, AL031846, AC002565, AL034429, AC005730, AF205588, AC011718, AC008079, Z99716, AC004961, AC008273, AC004895, AL035405, AL031587, U82828, AF042090, AL008716, AC005244, Z84572, AC004408, AL035587, AC002504, AP001068, AC007773, AL009181, Z93017, AC008132, AL031277, AC007160, AL049776, Z83856, AC002365, AL035086, AC007325, AL031651, AL121658, AC007981, AC007685, Z69707, AL008718, AC009516, AP000500, AC004929, AC005837, AC004821, AC009721, AC006071, AC006064, AL049856, AC003077, AP000695, AP000694, AF172277, AP000553, AC007546, AL021453, AF001550, Z84469, AC006262, AL034369, AC004808, AC003957, AC004933, AC005940, AC004857, AC004890, AC002524, AD000812, AC007386, AL022323, AC004996, AL031659, AC005399, Z96074, AC006111, AL133382, U62317, AC006453, AC002559, AC002312, AC005519, AC000029, Z83841, AC004222, AC004033, AC007099, AC007350, AC002395, AC005102, AC007790, L81577, AC005186, AL096701, AL133245, AC018633, AC004039, AC004623, AC006026, and AC005344.
HCUP46	437	927654	1 - 390	15 - 404	
HCUAA60	438	670941	1 - 54	15 - 68	AI749002.
HCUAD58	439	738408	1 - 302	15 - 316	AW134410, and AL042629.
HCUAE70	440	959686	1 - 223	15 - 237	
HCUAG89	441	706427	1 - 417	15 - 431	
HCUAG92	442	504395	1 - 314	15 - 328	AA342610.
HCUAH15	443	916651	1 - 217	15 - 231	T78930.
HCUAH60	444	916621	1 - 218	15 - 232	AI249862, AA911187, W52505, AW118534, AI085242, H72530, AP000555, D86995, AC004787, Z68870, AL021154, AC004491, AC004142, AL109758, and AC004032.
HCUAH70	445	574164	1 - 280	15 - 294	R70107, R69934, AL031681, AC005387, and AC004821.
HCUAI71	446	959492	1 - 334	15 - 348	AL049830, AC007280, and AC003982.
HCUAK23	447	676289	1 - 240	15 - 254	AL133485.
HCUAK49	448	574256	1 - 279	15 - 293	AA502860, AA593267, AA558227, AI446638, F35659, T58118, AL137954, AI963095, H73081, AW028429, AW148792, AL042756, AA487995, AI141675, AI215727, AW438916, AA487884, AI358501, AA579249, AI499094, AW069807, AW085991, AW193609, N27353, AW029280, AI884487, AI676218, AW130535, AI915068, T91187, R80865, AI761471, AI926681, AI860677, AI248679, AA680243, AI625570, AI039451, T65812, N66945, AI625468, AA383838, AA977743, AA629939, AI768952, AI125139, T08074, AA664535, R35972, AL048925, AI928866, AL037574, AA828662, AA339432, Z70688, AC003009, AC006252, AL080243, Z69650, AC005944, AC004167, AC005516, AC004141, AP000065, AC007766, Z84718, AP000351, AC003041, AL049745, AC004253, AC003665, AC005195, AC005668, AL031584, AC005666, S43650,

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HCUAL07	449	953876	1 - 442	15 - 456	AI919285, AI091391, AI143678, AW152653, H92931, AW243238, AI863952, AI263430, AI308855, AA814965, AF079098, and AF079099.
HCUAM57	450	574375	1 - 313	15 - 327	T91791, AW071109, AI087055, AA338281, AA225175, AA525157, AA973913, AI348567, AI370548, AC004000, AL121769, AL049759, AL021940, AC008115, AC003108, AC008119, AC005288, AC005037, U96629, AC009464, AC007676, AC002349, AL079342, AL050317, U95739, AC007308, AC003101, AC007263, AL034549, AL136504, AC003962, AC005899, AF130343, AL122020, D87675, AL034429, AC004616, AP000141, AC003037, AC005067, AC004890, AC002992, AC007253, AC002302, AC007240, Z82203, AC004685, AC004491, AC004953, AC005391, AC004132, AC015853, and AC006211.
HCUAM95	451	727174	1 - 243	15 - 257	AA613766, Z82901, and AL136520.
HCUAN44	452	574154	1 - 499	15 - 513	AA985143, AL133245, AC009239, AP000500, Z97183, and AL020997.
HCUAN49	453	577897	1 - 163	15 - 177	AA651923, AA765019, AA668900, AA968447, and AC004968.
HCUAN72	454	850140	1 - 191	15 - 205	AI049709.
HCUAO03	455	924902	1 - 311	15 - 325	AA595705, AI886736, AA765409, AC005011, AF196971, AC006530, AC005520, AC006236, and AB020875.
HCUAO28	456	850062	1 - 334	15 - 348	T94088.
HCUAQ92	457	506688	1 - 279	15 - 293	
HCUAR07	458	953872	1 - 147	15 - 161	AW167136.
HCUAT07	459	953869	1 - 484	15 - 498	AL042660, AA633908, AI791151, AW339562, and AL021396.
HCUAU02	460	920694	1 - 140	15 - 154	
HCUAU16	461	574193	1 - 294	15 - 308	
HCUAX57	462	934633	1 - 294	15 - 308	AI243475, AW183326, H22954, and F04138.
HCUBB28	463	685493	1 - 225	15 - 239	AA569686.
HCUBB46	464	577238	1 - 327	15 - 341	

HCUBE26	465	810522	1 - 99	15 - 113	AA381762, M78032, AA381747, AW339422, AA470490, AI198718, AI590404, AW404225, AI045108, H62550, AA297207, H54511, N41775, AI915081, F35684, AW440368, AW247389, R69819, AA856866, AA501807, AI306717, AI309943, AW440568, N67313, AA565911, AA678932, AW081610, AI538236, AI824476, T94988, T74524, N84161, AA714073, AA665532, HI2857, AI823705, AI925065, AI025930, C06004, AW088631, N68449, AW238253, AI889995, AI271762, AA745351, AA513851, AA678616, AW078821, AI962030, AA018923, AA012829, AW088656, AI653776, AA126814, T07225, AW019964, AA749152, AA496309, AA644223, AW338860, AA581498, AI620992, AA468494, AA552586, AW390284, AA630122, AI347665, AA846923, AI457389, AI568659, AA701131, AI417386, T40629, AA297662, H01852, AW082104, R93919, AI041924, AW080118, AI648514, AW084173, AI472736, T52822, AA579399, H40478, AI561241, AW021007, AW086291, AA309362, AI860535, AA584756, AA331158, AI053934, AA601653, H07953, AA744048, AI955360, AA745383, AI120976, F08866, AI053597, AI889579, H25938, AW328446, AI277373, AI278440, N70449, AA599080, T54144, AA368359, AI598056, AA862312, N54538, AI445557, AA179659, AL041240, AW265688, C06210, T40799, AI445338, AW265279, AA878492, AA434078, M77908, C15504, AI278972, AI446336, AA189097, AI049630, AA586433, AI079809, AA218631, AW242031, AW408767, T92394, AA339923, AA744094, AA654038, AP000065, AL049576, AC004655, AL034418, AC002429, AC005037, AL109984, AL031848, AC002288, AC007055, Z99716, AL049776, Z93017, AC004882, U62293, AC006449, Z84480, AC006539, AL096701, AC005562, AC006238, AC005057, AL031311, AC006211, AC004000, AC002302, AC009516, AI031680, AP000252, AF111168, AL135744, AP000689, AC005884, AC007676, AC007993, AC004966, AC004644, AP000555, AP000131, AP000209, Z83820, U91321, AP000212, AP000134, AC005871, AL109628, AC005519, AP000208, AP000130, AP000248, AC007227, AC005488, AL049757, AC006101, AP000247, AL139054, AC006578, AC007878, Z69733, AC005261, AL022721, U91323, AC004531, AC004098, Z85986, AC005225, AB003151, AC005726, AF001552, AC003013, Z83826, AC004263, AL035249, AL121658, AC006480, AC005233, AC004491, AC006121, AL031597, AL031846, AC005071, AL031767, AP000213, AC000025, AL022165, AF146367, AC004938, AL049712, AL022323, AL133485, AL049569, AC006965, AC004855, AC007376, AC005015, AC004448, Z84469, U78027, AP000135, AL109952, AL031282, L35533, AP000552, AC004031, AC004662, AL035409, Z97630, AC005520, AC005399, AC004876, AL096791, AC006581, AP000557, AC006285, AL121653, AJ003147, AL080243, AC002425, AC005800, AL049653, AC005060, AC004895, AC004253, AC006160, AC005081, AC004125, AC004859, AC002375, AC004520, AF111167, AL031291, AC008115, AC005180, AC005730, AC006515, AL024498, Z84487, AL035422, AF124523, AC004887, D83253, Z93241, AP000031, U95740, AC004409, AP000356, AC005332, AC000353, AP000556, AL049795, AF109907, AC004878, AL133448, AF176915, L78810, AC003665, AL031657,
HCUBE27	466	574097	1 - 407	15 - 421	

					AL022163, AL021391, AC004522, AL109758, AC005412, AC004216, AP000008, AL035587, AC006120, AC006014, AL021978, AC005911, AC004150, AL049829, AL031005, AC004019, AP000967, AF129756, AC005291, AC006958, AP000704, AC003950, AP000688, AC002527, AC004999, U85195, AC004814, AF165926, AC006487, AC006077, AC004817, AC004858, AC003029, AC005295, AC007308, AL034420, AC002036, AC006026, AJ246003, AL049631, AC005089, AC016025, AC005088, Z99496, AL022315, AL031781, AC003109, AC000052, AL022396, AP000044, AC004382, AC006001, AC006511, AL022318, AP000345, AC004983, U80017, AF200465, AC005280, AE000658, AC004771, AC007773, Z83844, AP000215, AL031733, AL035684, AC005529, AL035071, AC006396, AC005913, U95742, Z98950, AL022320, AC004963, AC005011, AL136295, AL031659, AC005005, AC007533, AC002554, AC005874, AF134471, AC005899, AL050307, AC007066, AC007277, AC007546, AL034451, AL049872, AL031427, AP000697, AL035086, and AC002511.
HCUBE55	467	574203	1 - 376	15 - 390	
HCUBG79	468	781681	1 - 177	15 - 191	
HCUBG83	469	537501	1 - 206	15 - 220	
HCUBH45	470	575720	1 - 121	15 - 135	
HCUBI13	471	862161	1 - 375	15 - 389	H93071, H50664, AW086257, A1754336, AA634786, AW021583, A1939442, AL138396, AW008317, T91187, T40617, A1307201, A1192631, A1804138, U91321, U52112, Z29373, AC005229, AP000337, AB012286, AL109801, AC004966, AC005089, AC004638, AC006449, AC006049, AP000215, AC002553, AC006582, AB023049, AP000961, AC009069, AL031577, AL035703, AC006312, AC007057, U76377, AC004485, AC006253, AP000513, AC009743, AC012599, AL022238, AC005081, AL049539, AF095725, AC005231, Z68870, AL021394, AC003012, AC004864, AL049557, AC004099, AC006237, AC007151, Z82194, AJ229042, AC004841, AL049776, AL031427, AC004520, AL035494, U80017, AC006441, AC005274, AC004913, AL033518, AC005695, AP000079, AC005049, AL117340, AC005067, AL023575, AC004770, AL023807, AC005145, AL122126, Z94277, AC004974, AC005335, AL031681, AC007537, AC004887, AC005790, AL049576, AC000353, Z94721, AC008928, AC011604, AL080243, AL031665, AE000658, AC005324, AC005519, AC005069, U85195, AC004257, AC005799, AC004820, AL031447, AP000354, AC005827, L44140, AC005780, AC005971, AP000959, AL132987, AC005255, AL079295, AC004253, X87344, AC004890, AC000069, AL049777, AL035683, and AL023576.
HCUBI14	472	574199	1 - 99	15 - 113	
HCUBI15	473	881192	1 - 338	15 - 352	
HCUBI38	474	792415	1 - 533	15 - 547	
HCUBI43	475	685512	1 - 115	15 - 129	AJ246003, and AL121658.
HCUBI49	476	961748	1 - 144	15 - 158	
HCUBI74	477	574235	1 - 388	15 - 402	

HCUBJ11	478	967484	1 - 314	15 - 328	D61636
HCUBJ42	479	574265	1 - 312	15 - 326	
HCUBK01	480	917257	1 - 409	15 - 423	<p>AI279417, AA558404, T05617, AI049955, AI568659, AI284536, AI251563, AA491423, AA610255, AI792695, AW302832, AI024511, AI792856, AL040816, AA629759, AA078384, AA635433, AW271095, AA381990, AL135377, AI948984, AI733946, AL039042, AL039041, AA775205, AI948959, AI733930, AA652910, H45698, AA838192, AA101744, AI792842, AI281622, AL043878, AI252190, T52745, AA557911, AA743968, AI815583, AW407632, AI732807, AI252141, AW328202, AI816537, AI280574, AL121287, AW337805, AI358712, AW275432, F01666, AI792746, AA847499, AI753672, AA642823, AW265155, AL048479, AA326452, AA324088, AI282629, AI798313, AL042373, AI245693, AI129421, AA326330, AA582746, AA683069, AW151018, AL118925, AA564925, AA303770, W24312, AL038977, AA460924, AI049845, AA772873, AI798041, AA579399, AI114657, AA536040, AI249365, AL096791, AC007025, Z82244, AC006312, AL049699, AC004185, Z97634, AC006026, AC007537, AC009247, AC007639, U80930, AC005670, AF157623, AL034402, Z98743, AG005725, AC005365, AC004668, AF006752, AC005338, AL021366, AC004963, AL117344, AC005072, AF024534, AC004031, AL050318, AC004254, AC005081, AL080317, Z97832, AL035495, AC005751, AC008123, AC002316, AC005086, AC004099, AC006012, AC004799, AP000109, AP000041, AL034549, AC000039, L47234, AL022238, AC007385, AC005952, AC006441, AL050332, AL049650, AL135744, Z83838, Z83826, AC006965, AC011331, AP000008, X62358, AL023807, AC002295, Z98747, AC002366, AF051976, AC004694, AC007773, AP000153, AP000704, M89651, AC000082, AC005300, AL031737, AL008712, Z97053, AL139054, AL031904, AC009294, AC008044, AC005587, Z99496, AC004531, AC007130, AC005661, AC003037, AL024498, AL023879, AC004778, AC007566, L81612, AC005037, D84394, AL022311, AF091512, AL132987, AC004663, AC006047, AL008582, Z83843, AC005736, AC005164, AL096803, AC000088, AC005088, Z99570, AL109628, AC000394, AP000509, AL008718, AC006236, AC000071, Z95118, AC004656, AF001552, AC005546, AC005695, Z84484, Z99716, AP000504, AL022326, AC004961, AC004686, AL080250, AP000347, AJ003147, Z95115, AC004013, AC006930, AJ010770, AL121754, AC004881, AC009363, Y12853, AC004097, AC005005, AC004922, AL049758, AC002544, AC005609, AC005666, AF130342, AC005753, AL117355, AC007565, AC005519, AL034420, AL049776, AC002545, AC005015, AC004921, AF129756, AC005632, AD000864, AC004851, AC005099, AC004750, AP000288, AC005280, AC005487, AL021578, AL031735, AC000353, AL049631, AL022717, AC003107, AC006597, Z82194, AL079304, AC009784, AC007201, U73643, AL031003, AL031387, AC003682, AL035461, AC007625, AC007899, AL024509, AC005041, AC007536, AL035462, AC005681, AL035460, AL021398, Z49208, AC005003, AC003012, U52111, AC020663, AC006946, AC005484, AC004583, AL109963, Z83844, AL031447, AF001550, AJ229043, AL009179, AL109798, AP000501, AL096757, AL078638,</p>

						AB020877, AF087143, AL078581, AC006487, AC004132, AC007151, AC005568, AL035443, AL049792, AC006088, AC005011, Z84496, AC005225, AL031728, AL022718, AL021391, AL080239, AC007221, AC004771, AL035587, Z97352, Z68873, AC006237, AJ236701, AC007546, and AF134726.
HCUBK36	481	850132	1 - 492	15 - 506		
HCUBK39	482	577234	1 - 491	15 - 505		
HCUBK46	483	574120	1 - 368	15 - 382		
HCUBK49	484	574122	1 - 365	15 - 379		AI200051, AA714595, AW086257, AW406755, AA317170, AA610438, AA342256, AL118947, F32705, AW408063, AW069807, AI358229, AI345518, AA526193, AL037291, AA663306, AI281881, AA557879, AA652057, AA649642, AA569468, T40617, AI499094, AA503168, AI963095, AL118911, AI049634, AA670126, AA743972, AA095511, T63597, N27353, AW088058, AA125788, AW265393, AW196798, AW023389, AW028429, AI150670, AW406447, AI281903, AL037945, AI061296, AI355206, AL041368, H58472, W07032, AW406659, AL138242, W07122, AL134703, F29989, AI365988, AL133862, AI865804, AA491814, AA747889, AW339687, AA516225, AI038990, AI635272, AA932099, AW302909, AW008317, AA228420, T59509, H86301, AI446474, AL042420, AA318652, AI912322, AW407340, H86264, AI708009, AL119123, AI352078, AA720746, AW316969, AI796627, AW439558, AL048925, AA640979, AL036523, AI633007, AA838479, AI679713, AI801482, AA947370, AA349854, AA838477, AA121919, AA878495, AA658235, AA804993, R44592, Z97198, AP000503, AF134726, AC005067, AP000275, AC004614, AP000037, AP000105, Z94721, Z84814, AC007130, AC007690, Z32772, AL008721, AC020663, AL031662, AC000086, AP000701, AL022098, AC004841, AB020869, AP000017, AC005365, AC006001, L78810, AC007051, AC007919, AC000070, Z93016, AP000884, AC005754, AC004477, AP000962, AC002045, AC005593, AC007395, AL096766, AC002349, AC004887, AC004891, U91325, AC004534, AL132712, AB003151, AP000688, AC004760, AP000159, AP000018, AC006111, AC004799, AC004820, AL031587, AL035450, AL096701, AC007240, AL080317, AC004991, AC005081, AC004814, AC007024, Z73358, U91319, AC003009, AC003005, AL035535, AL109758, AC006064, AC005329, AC005887, AL034402, AC005880, Z95152, AC002365, AC010175, AC005829, AC007970, U73638, AC004996, AC005164, AC005701, AL021395, AL078639, AC005376, AL022158, AP000349, AL109759, AF045555, U73645, AL121655, AC002072, Z86090, AL035604, AC005940, AL031769, AL049759, AF043105, AL049539, AC008372, AC008122, AC007001, AC004061, AP000557, Z98048, AC007444, AC004263, AC004755, U11309, AC006600, AL023802, Z74617, AC000125, AC007536, AC004650, AC005699, AC003688, AF129756, AP000517, AP000692, AL031132, AL021154, AC003963, AC006254, AL023801, AF067846, AC007695, AL096774, AC004008, AL049633, AC012380, AL035420, AL031291, AC007535, AC007537, AL022329, AC006322, AL008731, AC005019, AF207550, AC004896, AL022337, AC006275, Z98749, AP000350, AF001549, AC004881, Z85986,

HCUBL12	485	739021	1 - 198	15 - 212	AL022323, AB001523, AC005520, AL078581, AC004675, AJ003147, AB023054, AC004186, AC007245, Z83826, U86136, AC003101, AL031447, AL009181, AC005666, AC005345, AL135783, AL049636, Z98051, AF088219, Z93241, AL034419, AC005778, AC005777, AL022578, AC007237, AC005264, AB011147, AL023284, AC009516, AC005280, AC004408, AC004232, AC002117, AL133382, AL049635, Z86061, Z97181, AC005751, AC007387, AL109613, AL031257, AF095725, AC005003, AC004913, Z93783, AC007243, AL035587, AC004797, AL021307, AC004188, AC007327, AC000387, Z99291, AC005157, AC009721, AC006039, AL049780, AC005274, AC007993, Z97352, AL034420, AJ005683, AC005064, AC004081, AL023582, AL117352, Z93020, AC009501, AC005411, AB014086, U78308, D86998, Z69719, AC004467, AC008928, AL049591, AC002464, AC005785, AC004963, AL035410, Z68344, AC006079, AC004973, AC004222, and AL109827.
HCUBL65	486	574201	1 - 297	15 - 311	
HCUBM86	487	577291	1 - 332	15 - 346	AL117328.
HCUBN07	488	953879	1 - 179	15 - 193	AA662395.
HCUBN21	489	577287	1 - 331	15 - 345	
HCUBN38	490	971421	1 - 172	15 - 186	AW089099, and AC004227.
HCUBN66	491	664536	1 - 135	15 - 149	
HCUBO08	492	959928	1 - 305	15 - 319	AC006388.
HCUBP69	493	526757	1 - 133	15 - 147	AL031683.
HCUBP89	494	850016	1 - 347	15 - 361	
HCUBQ76	495	575352	1 - 269	15 - 283	AI061235.
HCUBQ85	496	967074	1 - 327	15 - 341	AW328178, AW328000, AA501777, AA503770, AA749428, AC004854, AC005536, AP000547, and AC004621.
HCUBS58	497	522378	1 - 295	15 - 309	AA342137, F19690, AA069872, T78945, AA347735, R68248, AI453160, AI564294, AA632765, AI471467, AA181917, W01359, AC004983, AC007225, D87675, AC004851, AP000090, AF196969, AC004967, Z98941, AL031003, AF222685, AC005233, AC002126, AC006241, AC007382, AF130248, AC007193, AL035086, U07563, AC004778, AC000070, AL096702, AF075007, AC005529, AL080286, AP000689, AP000688, AC000025, Z83846, AP000354, AB003151, AL109758, AC005695, AL034554, Z97053, L44140, AP001052, AC002477, AC005962, AC004168, AL117337, AL021155, AC005226, AL031681, AL031255, U91321, AL133163, AC004228, and AL035460.
HCUBS72	498	577286	1 - 431	15 - 445	AI355281, AI978712, AA664521, AI076616, F31796, F31799, F37223, AA310117, AA077302, AW166611, AW131457, AL038936, F31465, AA133650, AI357823, AA448858, AA658846, AW408161, AI926366, AA482896, AL048544, AA133651, AW380074, AL079466, H21449, AI752978, H42075, AA482768, AI139971, C05928, AI860423, AL119295, AI701959, AW167372, and AL035460.

					N27353, AA670108, AA338522, AA342901, AA576336, AA736963, AA347109, AA569206, AL037285, AL186233, AA354785, AI783494, AA342256, AP000555, AC015853, AF205588, AC004999, AL034423, AC003075, AC005031, AC005387, AC002036, Z99496, U80017, AC016027, AC016830, AC005920, AF134726, AC008984, AL078581, AC012085, AC005253, AC005519, Z98051, AC005385, AC004895, AC005828, AC003002, AC006139, AL121652, AL035400, AP000503, AC006544, AC006101, AL121578, AF140764, AC000041, AC004016, AC000025, AL021917, AL035397, AC004686, AB026898, AC006449, Z85986, AP000350, AP000514, AC002316, AL031295, AC006121, AC007533, AC006372, AC004655, AC007387, AL021453, AL109967, AL133304, AC007637, AC006430, AC001066, L81893, AL078472, AC007096, AC006077, Z83826, AC005011, AL049829, AC007151, AP000245, AC016831, AC004254, AC005237, Z99570, AL031662, AC004132, AL035587, AC005488, AC007666, AC007285, AC002037, AC003973, AC007707, AL008730, AC005200, AL022328, AC007050, AL009174, AP000704, AC002059, AC006992, AC007313, AC005081, AC007023, AC000105, I59642, AF106918, AC004779, AC005346, AC004791, AP000255, AL035424, AP000129, AP000207, AP000213, AC004996, AP000135, Z98044, AL009179, AL035684, AP000031, AL121877, AC004019, AC007221, AC005772, AC005057, AC004970, AC006285, AL021579, AL022329, AL023656, AC005839, AC005562, AC004383, AC003665, AC006432, Z93017, Z94161, AC006255, AC007455, AC004595, AL021578, AL133163, AC000353, U52111, AC007688, AC005280, U95742, AL023279, AC005954, AC005520, AC005018, AL031864, AC007216, AC007685, AC007245, K03555, AP000008, AB000882, AL031311, AC002045, AP000962, AC004933, AC009399, and AL008719.
HCUBT02	499	920682	1 - 306	15 - 320	
HCUBT94	500	574239	1 - 528	15 - 542	AI189587, AA705559, H47182, H47091, and AF147424.
HCUBV04	501	615547	1 - 372	15 - 386	AW026750, AA579906, and AL035090.
HCUBX57	502	506518	1 - 346	15 - 360	AW084004, AA364082, AA351808, AW089950, AA533660, AC005920, AF196969, AC005031, AC000025, Z83844, AC008101, AF047825, U80017, AC005520, AC004805, AC004851, AC006276, AL022238, AL050140, AC005695, AC005971, AL049869, AC006511, AC005214, Z75891, Z82180, AC005231, AL049780, AB029020, AF196779, AL139054, AC004263, AC005696, AC002319, AC007421, AC004796, AF053356, U95742, AF117829, AC005088, AC002477, AL050350, AC005015, AC005702, Z95114, AL117337, AC005409, AC004084, AC007216, AF001548, AC006443, AC004797, I34294, AL133448, AC004910, AL035461, AL034423, AL121825, AC002350, AL133245, Z94160, AC005519, AP000514, AC002301, AC002316, AC006139, AC005011, AC002430, AC003950, and AC004381.
HCUBZ57	503	529702	1 - 329	15 - 343	
HCUBZ86	504	694720	1 - 247	15 - 261	
HCUBZ88	505	574096	1 - 297	15 - 311	AI341867, and AA608765.
HCUBZ96	506	506585	1 - 293	15 - 307	

HCUCB20	507	574189	1 - 415	15 - 429	AL031295, AC002316, and AC005696.
HCUCB20	508	573901	1 - 347	15 - 361	AA988600, AA515224, AL282479, F13749, A1870444, AA747472, AW167909, AW438643, W21218, AW090629, A1962050, AW023975, AL135643, AA659083, AW419262, AF1751162, AW162288, A1917271, A1307201, A1431303, A1688846, A1284640, A1471481, AA657741, AW029038, A1696793, A1345654, F36273, A168815, AW16815, AW193265, AA527954, A1350211, AL041854, A1904894, A138421, AW193432, A1918421, A1653886, AC004821, S77605, AC006312, AL008715, AF165926, AC006960, AC005412, AL008635, AC004491, AC002449, AC009225, AL031670, AC008009, AC004985, AC005874, AF134471, AC004382, AC004675, AF088219, AC004797, AC005220, AL109801, AC003681, AF205588, AC020663, AC006111, AL035587, AC006992, AC007676, AL034376, AC003696, AC005695, AL035086, AF003626, AL022313, AL121655, AP000347, AL035460, AC009248, AC003110, AL035413, Z82097, AL031584, AC004972, U62292, AP000346, U82671, AL096791, A1251973, AC005034, AC004685, AC007878, AC007292, AC004690, AC005821, Z93930, AC004834, AP000240, AC004263, U52112, AF196971, AC005594, AL022322, AC006543, AC005776, U63721, AC006241, AL136295, Z97054, AC004098, Z82244, AC004991, AC004084, AF190465, AC000353, AC004103, AE000662, AP000553, Z83844, AC004837, Z84477, AC003047, AC007277, AC006101, AC006571, M94081, AL008729, AL033527, AC006544, AF045555, AC002369, AC005255, AC002301, AP000289, AL080276, AL096677, AL021391, AP000501, AC005041, AC005482, AC006552, AP000042, AP000504, AP000110, AC006511, AC007666, AC008984, AF155238, AC005037, Z97056, AR036572, U91328, AC002316, Z94160, AL121603, AL117351, AL079295, AL078471, AC004655, AC005048, AC005632, AC007536, AL049761, Z99570, AL008583, AL022237, AC007731, AF129756, AP000339, AP000518, AC005500, S42659, AC006480, AC007151, Z95113, AC002543, AC002470, AB026899, AP000217, AC006251, AC005702, Z70288, AC005514, AL132987, AC004678, AL022334, U02054, AC005664, AC007289, AC004841, AC005619, AC004126, AC008064, AC007993, AF037338, AC006538, Z97183, Z85986, AL035403, AC002326, AC005553, AL022476, AC005377, AL031587, Z99129, Z82245, AC007387, AC007051, AC007546, AC004500, AL109758, AL031681, AC005071, Z68273, U95742, AC007308, AP000355, Z81370, AC005015, AL009031, AC006547, L78833, AC004859, AL022323, AC007919, AC005003, M87923, AC005094, AL132712, AL031281, AC004883, Z69890, AL096701, AL049830, AC007216, AC003065, AC003007, Z84469, U89337, AC003688, AL034417, AC006057, U73634, AC004933, AL049869, AC004216, AC007055, AL031005, AC000075, AC005033, AL109613, U73168, AC005330, AL009181, AP000269, S70707, Z84466, AC002365, AL031735, AC004000, AC004760, AC004447, AP000500, AL020997, AL109963, AC006276, AC006064, AL034384, AL049540, and AF134726.
HCUCB20	509	577129	1 - 291	15 - 305	AL022318.
HCUCB20	510	796530	1 - 229	15 - 243	AW005018.

HCUCD26	511	574098	1 - 226	15 - 240	AB020868.
HCUCD82	512	780047	1 - 329	15 - 343	R22017, AC004787, and AF165926.
HCUCG21	513	671210	1 - 463	15 - 477	
HCUCI43	514	715488	1 - 203	15 - 217	D60319, D60589, D60408, D61144, D60853, AF119569, AF091501, and AF087651.
HCUCJ90	515	967501	1 - 65	15 - 79	AC007032.
HCUCT08	516	959910	1 - 531	15 - 545	
HCUCT48	517	720905	1 - 245	15 - 259	
HCUCV13	518	574121	1 - 310	15 - 324	
HCUCV20	519	694398	1 - 250	15 - 264	
HCUDA38	520	862089	1 - 344	15 - 358	
HCUDB13	521	578712	1 - 323	15 - 337	AA936845, N73060, N73203, R14903, AA988600, AA595504, M78131, AA774006, W68328, H15294, AI049504, AA364863, AW131417, AA077619, AA477517, H53101, AA665304, AA457230, N57709, AL037006, R38509, H58786, AI791561, AA173334, AA525407, H10454, R48980, AA636102, AI479068, AA225548, AA321595, N22153, AW192518, R82835, AW073498, H09639, AI929410, AI753672, AW019964, AI750950, AA693806, AA629412, AA479337, AI273675, AA296958, CI4599, AI268564, AA706094, AA831801, CI4880, AI138918, AA741020, AI367222, AA832016, AI371804, AI860535, AW276933, H63220, AW103407, R83708, AC009399, AP000128, AP000206, AP000245, AC005529, AL008715, AL034420, AC000025, AC005527, AC009247, AC004531, AC002407, AP000688, AC011331, AC002990, AC004466, AL008718, AC004540, AL031803, AC002381, AC006077, AC005351, AC005901, AC005822, Y11107, AC000086, AL133275, AC004910, AC006042, AC007919, AC006417, AF006487, AC004383, Z99716, AF111168, AL035587, AC005972, AL031577, AC006275, AC002301, AC002351, Z97054, AC007055, AC007537, AC002120, AC005291, AL031428, AF027974, AC000353, AL034419, Z95331, U72845, AC004955, AL031255, AC005088, AC004587, AC002563, AL133448, Z85986, AC005209, AL109963, AC007263, AC005480, AC007540, AP000116, AC005231, AC006388, AC000066, AC004000, AC005049, AC004851, AL035415, AC002073, AF134726, AC009509, AC005585, AL021154, AL118516, AC007227, AC007201, AC005071, AL096775, AC005740, AC005921, AP000555, AC004983, AL121915, AL049766, AC004139, AL049830, AC007226, AC004908, Z98752, AC007536, AC007559, AC004036, AC005037, AC005578, AF092925, AC006059, AC005486, Z98941, AC007028, AJ010770, AC005064, AL078581, AC008249, AC007214, AC002072, Z82178, AC005796, AL109952, AL009181, AC005971, AC010168, AL033527, AC004054, AL049699, AD000812, U91324, AP000252, AL024498, AC003962, AF141308, AC006449, AL034418, AC008044, AL021578, AC005722, Z84474, AC005521, AC005479, AL033524, U91318, AL031685, AC004694, AC007899, AC004125, AC005399, AL121825, Z74739, AC006344, AC005005, AL035422, AL133249, AL023581, AC006071, AC004019, AC005821, AC000026, AC006538, AL050318, AC006365, AC004817, U95740, AP000212, AP000134, AL109984,

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HCUDC45	522	576566	1 - 379	15 - 393		AC007324, AC008079, AC008101, and AC016830.
HCUDC79	523	576577	1 - 154	15 - 168		
HCUDD19	524	959706	1 - 1796	15 - 1810		AI184562, AW248599, AW051528, AA447350, AI740715, AW316672, AW316654, AI952004, AA977191, AW363318, AA703205, AA149973, AA135413, AI799559, AA459866, AI023370, AW264927, AW264916, N93625, AW297503, AI192819, W68805, AA402761, N53321, AI207204, AI809102, AA804623, AW057780, W68607, H80704, AA398493, H80394, H14357, AI581914, H51962, AI873736, AA300679, AI689515, T33180, H80494, AA555067, AA764994, H68164, H68165, AI807729, AI693622, AI273514, AI932996, AI932990, H80705, N48174, R92093, AI342079, AA903178, AL037469, D61862, H81412, AA460510, W25416, R92092, T24613, AA280237, AI493508, N74148, AA281536, AIS25850, C20784, AW438613, AA923003, AI094325, and AB002330.
HCUDD43	525	850103	1 - 263	15 - 277		AI349874, T39598, AA581903, AA630352, AI890928, AW023511, AI890570, AI859251, AA484148, AA702023, AA309460, AI334435, AW074398, AI561335, AI110770, AA226364, AW193546, AA342901, AL120502, AI266576, AI536555, AA715270, AI679706, AI612152, AI679132, AI287651, AL079683, AI446464, T63104, AI252114, AA177061, AW270270, AI792903, AA916039, AW162489, AI734002, AI358343, AI148277, AI279165, AW074207, AW338086, AI061227, AA523688, AL120687, AA587256, H60143, AI064864, AI252085, AA451612, AL138265, AW303876, AA348311, N66776, W47480, N64437, R44592, AI792864, AI733957, AL119984, AI053672, AI471481, AA744110, AA441788, AI334443, AL040130, AA594215, AA553465, AA491814, AA481363, AA652057, AA481375, AA649642, AI742771, AA386111, AI246796, AI674873, AI287451, AI274431, AA501722, AI610159, AL048925, AW341892, F19156, F36273, AI830390, AL041382, AI284640, AA483034, AI613261, AA125788, AW327360, AL040547, AI493634, AW172727, AW265009, AL137954, AA515938, AA578141, F03097, H92005, W45336, F35113, AI110760, AL119691, AA559290, AL049831, AL049697, AB020871, AP000193, AL109981, AL023281, AC005565, AP000117, AC004983, AC004021, AC006126, AL031293, AC005274, AL023575, AC004019, AP000049, AC004475, AC005089, AP000311, AC004067, AC007065, AL080243, AC005158, AC005837, Z83826, AC007666, AL096701, AC005412, AL096829, AC006277, AC005086, AB020870, AC002564, AB020859, AC004941, AC004616, AL049869, AL049757, AC002287, AC005483, AP000334, AC002522, AC000095, AP000173, AC002429, Z81369, AC000052, AL031430, AC005104, AL035684, AC005184, AF072711, AL079295, L14752, AF111169, AP000023, Z98885, AC005037, AL035249, Z68871, AL078472, AP000018, AP000160, AC004924, AC005159, AC009227, AC006482, AC005231, AC004813, AF047825, AL023807, AC006387, AC007934, AC005793,

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HCUDE57	526	734883	1 - 373	15 - 387	R91783, AW449624, A1792255, AA632429, AA632442, and AA573692.
HCUDE23	527	953868	1 - 356	15 - 370	R62551, and A1174377.
HCUDE38	528	850076	1 - 324	15 - 338	AA551398, A1690497, AL031577, AC005971, AF109907, AC007386, AC006077, AC007773, AL031666, AL049843, AP000208, AP000130, U91321, AF196779, AC002300, AC007880, and AL034417.
HCUDE47	529	861150	1 - 789	15 - 803	AW139719, A1911432, A1288208, H39195, R42796, A1093947, H40911, H23589, H46892, R42704, H40952, H46310, H52787, H52820, H41504, AW075323, and AW071240.
HCUDEF26	530	676949	1 - 436	15 - 450	
HCUDEF33	531	577224	1 - 295	15 - 309	R02571, A1032037, AA679303, AA642557, AA345400, AA551532, N53352, N58999, AA985662, F18098, AA007330, AA767276, AA703457, AL046094, N64205, A1479093, AL009174, AC006238, AC004662, AC006530, AC004491, AC005781, AC005740, AL049780, AC006597, AL049911, AC005856, AL109628, Y14768, AC004408, AP000505, AL030996, AC004003, AC005874, AF134471, AC002351, AC002375, AC004933, AF117829, AC004648, AL135959, AC000105, AL078611, AC005102, AC004232, AF129756, AL117344, AL031577, AC002302, AF001549, AC002301, Z99774, AL031733, Z15025, Z98036, AC005105, AL049759, AC006961, AC005899, AC005663, AC004821, U91322, Z79997, AP000338, AC004125, AP000216, AJ003147, AC003103, AC004000, AL008718, AC005500, AC007225, AC002314, Z97200, AF126403, AC008372, AC004990, AL078460, AL109758, AL035088, AC007276, AL022330, AC002378, AC007227, and AL035089.

HCUDF90	532	958449	1 - 459	15 - 473	
					AA747777, H71827, AA378822, AA378821, AA573020, AA810269, AA503154, AA451612, AA095511, AA837058, AA644538, AA533725, AA985455, H81785, T29180, T52733, AA593247, F00290, T53607, F31204, AA493708, R31948, T69435, AA176717, N22424, AA861959, AA804962, AA112778, AA780797, AW050498, A1446464, AA564264, AA406755, AA148489, A1365988, AA192695, A1954260, A1358229, AA533661, AA143516, AA598494, AA578349, AA357937, AW088984, AW339687, AA503473, AA908349, A1635272, AA401022, T51102, A1499938, T72601, A1305766, A1920877, A1624698, AA059154, A1133723, A1278997, A1744188, T55213, AA640034, F37286, AA657918, A1827234, AA494163, AA365694, AA805230, AA218645, AA911519, AA169194, H12334, R77608, AA669840, AA371533, C19058, W38648, T06647, R81240, R64515, AA515128, A1064864, AW338086, H71429, R45369, AA098922, H53522, AA533450, F34795, AA121333, AA364429, AA176114, N54934, AC004605, AC004964, AC012599, AC003684, AC005696, AC007845, AC016025, AC005069, AF117829, AC005736, AB003151, AP000688, AC006277, AL078477, AP000689, AC004858, AF109907, AF069291, AR000118, AJ229042, AC016027, AC007751, AC016830, AC020663, AL031577, AL135744, AJ239322, Z86061, AC016026, AC004854, U96629, AC004675, AP000556, AP000557, AP000552, AJ246003, AL031668, AF038458, AL133245, AC005740, AC006374, AL009174, AF131217, AF001549, AF088219, AC004216, AC005839, AL008582, AL023575, AL121658, AC002349, AL031905, AL132718, AF010317, AP000114, AP000046, AC005409, AC004019, AP000473, AF124523, Z68322, U95743, AL022726, AL121603, AC005031, U95742, AC018633, AC002133, AL020997, AC008372, AC005730, AC004765, AL035587, A1238481, AC007510, AC005412, AB020858, AC005191, AC005775, AC007324, AC006597, X69953, AC006001, AB023049, AC005373, AL117330, U80017, AC005399, AC004596, AC006251, AL034420, AP000432, AC007773, AL022394, AC006273, AC005242, AC003030, AP000356, AC005666, AC002316, U82696, AC000353, AC006958, AF165176, AF064863, AL034379, AC006130, AP000705, AC000379, AL023879, AC000052, AC001164, AC006285, U91326, AC005772, AC004184, AC006525, AB020867, AF064861, D15054, AC007050, AC005728, AC005280, AF139813, U73634, AC006465, AC006312, AL022323, AC004139, AL035089, AC004770, AC004186, AL109799, AC004228, AC002070, AC002312, AC007314, AL031770, AC003681, AC004859, AC002051, AC002310, AL080243, AL031283, AC004894, AC005231, AC007666, AL031255, AJ011930, AL022320, AC007686, AC008018, AR036572, U91328, AL031281, D14034, AC005837, AC008033, AC006948, AL021808, AC002544, AL049760, AL032821, Z84466, AC005841, AL109654, AL049757, AC004492, AC006441, AC005067, U07562, AC006208, AC009516, U63312, AL049776, AL049832, AL133448, AF002993, D87675, U47924, Z83840, Z98950, AP000502, AC005379, AL035668, AC006430, AJ003147, AL022328, AC004975, AC006121, Z84477, AC002369, AC004531, AC007099, Z83820, AL031670, AL035460, Z83844, AC004470, AC005082, AC005261, AC004671, Z85986, AC005913, AC007227, AL033527, AL078603, AC002066, AC005906, AL035400, AP000352, AC003682,

						AC005104, AF035397, AL049696, AC004878, AC005157, AP000460, AC006449, AC005529, AC004386, AL021937, AC005901, AC006042, AL096712, AF003627, AB023054, and AL035458.
HCUDH64	533	717894	1 - 392	15 - 406		AB022698, AJ007628, and AB022699.
HCUDH84	534	713524	1 - 367	15 - 381		
HCUDJ91	535	861025	1 - 303	15 - 317		
HCUDL94	536	915821	1 - 353	15 - 367		AI623889, AI934811, AI934751, AA687180, and AF053356.
HCUDM23	537	462283	1 - 376	15 - 390		AI003172, W60516, AI051551, AA557325, AA299087, AI149915, T79003, AL041368, AI857261, AA365347, H51054, AA313078, AI499094, AA350859, H64560, AI205126, AA443390, AW276827, AW088616, AI879000, AI350211, AI032878, AW069807, AI719080, AL041412, AA364567, AI469878, AA327572, AW265214, AW193432, AA329192, AA551509, AA381666, AI653515, AI915075, AW277102, AI679639, AI341664, AI193007, AL046696, AI061334, AI204076, AW339568, AI471481, AI359285, AW078495, W04302, AI653434, AL046409, AA365587, AI289067, AA584749, AA340960, AA580662, AW303876, W25284, AI305766, AI686431, AI124660, AI761471, AI421213, AW023672, AI762575, AI678392, R23777, AI914706, H13868, AA847216, AI719644, AA377730, AW074398, AI284640, AI538399, AW193265, AA659083, F31204, AA344959, AA229785, AW264973, AI110770, AI610159, AA593060, AI282907, AA641989, AA507990, AW057699, AI536625, AI284467, AI688846, F28576, AI806850, AA973575, AI569086, AA515128, AI634384, AA071182, AI038279, AW337985, AW419262, AI815000, AI079910, AA679810, F36273, AW261871, AI889781, AI431303, AW130799, AI653886, AI445436, AI890052, AA457639, AI742771, AI814735, AI963786, AI613280, AI963720, AL079645, AI474713, AW338869, AI923140, AI133235, AL138421, AL042856, T10218, AI547286, W28786, AF150222, H64777, T34066, AL047643, AA460367, AW157326, AA128576, AA515435, AA339432, AA359958, AI049634, AW175641, F19258, AI124779, T80500, AA579140, AC004495, AC007151, AI1109799, AC004041, AL008634, AC005225, AC006396, AL031770, AC005701, AC005589, AL078580, AL080278, AC004655, AC000075, AC005164, AC005664, AC000097, AC006547, Z94721, Z94056, AP000459, AC008080, AL132642, AC008039, AL031287, AC003086, AC009288, Z95113, AC004100, AC004861, AC007252, AL078584, AC005193, AC007536, AC004985, AC006559, AL050305, AL050097, AL022327, AL035252, AC007501, AJ003147, AC006143, AC002364, L81648, AC004220, AL031012, AP001038, AL021937, L13713, AF015171, AL049565, AL049871, AC005881, L13714, U85195, AC004900, AL049589, AL137191, AC005486, AC007032, AC006323, L76568, U34879, Z93023, AC004875, AC004953, AC006050, AC007263, AE000658, U63312, AC005217, AC004097, Z93241, AL033521, AL034350, AL035461, AC007040, Z82900, AP000468, AL109802, AJ011932, AC013248, AC004756, AL096774, AC002538, AL034373, AL078615, Z82210, AC005375, AC007159, AC006556, AP000556, AC007312, AP000552, Z65382, AP001170, AF038667, AC000381, AF003627, AC005876,

HCUDM66	538	506522	1 - 367	15 - 381	AC003964, Z83827, AL034548, AL031680, AC009223, AL132992, AB017652, Z97053, AL033392, Z69666, Z84479, AC005781, AC004645, AL109801, AC003002, AC007038, Z98744, AC005911, AL031390, Z81369, AP000477, AL035400, AL079295, AC020663, AC007551, AL133371, AC007656, AC006111, AC005390, AF095901, AC005923, AC004946, AC005002, AL031295, AF064865, AC005046, AC004222, U52111, AC006953, AL133353, AC006125, AC004789, AL080242, AF045555, AC005057, AC002119, AC005064, AL031848, AL132708, AC009247, AL021918, AL021368, AL109758, AC004010, AC004859, L13709, L13706, L13707, Z99495, AC007917, U18391, U57009, AF140763, Z98883, AC002306, AC004755, AC004403, AC000127, AC005355, AL034418, AF038458, AC000066, AB020859, AC005231, AC006409, AL031657, AC004990, AC005150, AC007011, AJ010770, AC005274, Z77894, AC000025, AC006006, AC005552, U67230, AC006124, AL096761, AL023799, AB020871, AL022143, AP000855, AC005243, Z98304, AC003037, AC005527, AF042090, Z97054, AC002055, AC004967, AB029343, AB023059, AC004195, AC004076, AL031223, L47234, Z84718, AC005210, AF091512, AL078462, AJ239318, AC004745, AP000509, AL096862, AC006539, AL031666, AC007030, AP000351, AC004662, AL121825, AL049709, AC004027, AL035653, AC002980, AC004051, AL009181, AC006374, AC005822, AC005245, AF196779, AL121823, AF165124, AL031054, AC007364, Z95114, AL080239, and AC005084.
HCUDN09	539	850101	1 - 456	15 - 470	AJ090115, AI168683, H99504, AI147670, AA232645, N73285, AA374707, AA380875, AW139567, AA886361, AI735132, and AI679526.
HCUDN14	540	862119	1 - 400	15 - 414	AL021368.
HCUDP19	541	578721	1 - 345	15 - 359	
HCUDP23	542	783051	1 - 444	15 - 458	AC005755, AC005372, AL049780, and AC005081.
HCUDP27	543	725155	1 - 427	15 - 441	AA278441, AI263438, AI870837, AI886871, AW450567, M78087, AA887815, AI700532, W94450, R96854, and R98160.
HCUDP82	544	578720	1 - 337	15 - 351	AI538514.
HCUDQ61	545	839959	1 - 318	15 - 332	AI970020.
HCUDS61	546	578705	1 - 390	15 - 404	U77321, U90095, AC002403, and AJ006345.
HCUDT62	547	747131	1 - 320	15 - 334	AW057640, AA410949, and AJ394291.
HCUDT65	548	915742	1 - 1845	15 - 1859	AF039235, AI669256, AW245958, AJ763048, AW245514, AW237088, AI093187, AI571378, AW296090, AJ354976, AI680102, AW119180, AI140327, AA934553, AI201269, AA559846, AI991982, AA625161, AJ203368, AA040597, AW268813, AW152391, AI243335, AI185996, AA315994, D80898, AI887841, AI902903, AA497000, AI312767, AA373939, AA358918, AA634307, U25751, AI916936, AJ700879, AA918570, AA362530, AI671153, AI927665, AI738973, AW087508, AI824923, AI810550, AA359868, AW196382, AI867799, AA738423, D80899, AA954586, C01220, AA489585, F31194, AA361102, AI698559, D20015, W81431, AA928147, AI432152, T27188, AA040679, T19862, and T27189.

HCUDW37	549	859268	1 - 895	15 - 909	
HCUDW74	550	576240	1 - 246	15 - 260	Z84480, and AC005011.
HCUDX05	551	951165	1 - 37	15 - 51	
HCUDX14	552	571370	1 - 307	15 - 321	AC002477.
HCUDZ25	553	678365	1 - 295	15 - 309	
HCUEA58	554	579029	1 - 303	15 - 317	AL031729.
HCUEA63	555	745183	1 - 354	15 - 368	<p> AI826761, AI355007, AI085719, AW338042, AI149478, AA650365, AI733856, AI742168, AA455483, AA297666, AA226153, AA481887, AI310343, AA410788, AI135108, AI216151, AW316969, AA744018, AI061313, AW156980, AW270771, AI829331, AL045077, AA555229, AA651632, AI053978, AL037910, AI620415, AA679625, AI228778, AA021429, AA737309, AA503468, AI244127, AC003037, AL049776, AC005399, AL022316, AC007388, AC005015, AC005529, AC005274, AC004067, AC004967, AL132777, U63721, L78833, AC007308, AL050318, AL021154, AL022323, Z82206, AL031767, AL031589, AC005280, AP000210, AP000132, AC005231, AC006312, AC016027, AC016830, Z93017, AC005081, AL049869, AF111168, AC000159, AC005409, AC005913, AC007011, AC004755, AC004156, AC002310, AC005291, U62292, AL109628, AC008498, AL035417, AF196779, AC005340, AC009247, AL021808, AC005953, AC005043, AP000557, AC003043, AL133448, AL049692, AC003101, AD001502, AC004491, AL022318, AC005074, AL049539, AL096703, AC005971, Z98742, AP000098, AC006211, Z97056, AL021707, AC002302, AC007227, AC003007, AC005519, AC005722, AP000114, AC005821, AC004686, AC020663, AL117352, AP000502, AL109952, AC005800, AC004890, AC005881, AC007536, AC005632, AC005209, AL078477, Z93244, AL020995, U91323, AC005330, AL035420, AC003665, AC004000, U91326, AC004983, AC005412, AC004383, AC002544, AC005940, AL022476, AF134726, AC002375, AC009509, AL121652, AL096791, AL031846, AL035400, AP000556, AC004876, AC009516, AC005200, U52112, AP000514, AL049843, AL035587, AL121748, AC010170, AC004805, Z99128, AC004738, Z84469, AP000356, AC002316, AC009044, AC006023, AC007637, AC004526, AC007371, AC005943, Z83840, AF001549, Z85987, AC005921, AC004910, AC005484, Z85986, AC007999, AL008719, AP000553, AC006077, Z95152, AC004832, AC003663, AC002470, AC005089, AC002404, AC006121, AC007114, AC005261, AC004913, AC007664, AC005158, AL035422, AC002425, Z93023, AC004841, AL031657, AP000510, Z83844, AL034548, AF124523, AL133245, AL022165, AL049830, AC010205, AC000029, AC006509, AC002045, AL035419, AL031774, AC004785, AC002996, U52111, AC005740, AC009288, AC008018, AL049832, AL031295, AC004638, AL133163, AC005962, AC006449, Z84480, AC002070, AC004084, AC005069, AC004874, AC004771, U85195, U78027, AL096755, AL049829, AC005837, AC005300, Z99716, AC005520, AL133246, AC005049, AL020993, Z82244, AC006581, AL133244, AE000658, Z83820, AC004815, AC004099, AL109984, AC002550, AC006511, AC006271, AC003982, Z97876, AC005523, AC004583, AC006265, AC005088, </p>

HCUEA72	556	713040	1 - 311	15 - 325	<p>AC004896, AC005220, AC006960, AP000248, Z84466, AC004895, AC000353, AC005544, and AL031291.</p> <p>AW084919, H167179, T58440, A1708182, A1141130, AA586433, H52397, A1865087, R56848, A1566425, AW270183, AA721523, AA721530, AP962094, H61871, AA610433, AA292003, T89901, AA746911, AA374797, AW419389, H61942, A1697242, AW407340, W02189, AA069631, AA568314, AA809635, AA224917, A1697239, R69937, A1266359, A1749335, H71678, A1066711, AA666046, A1686470, H73306, T97896, H07953, A1583468, A1538214, AA071151, AL079666, A1697235, AA214042, AW074613, AA084076, AA468486, N70449, H13612, H01327, AA329565, AA032001, AA715955, AA525253, AA706495, T55992, AA601216, AA054085, AW152178, T81513, AL133749, H81267, A1858889, A1251576, W37651, AA747234, AA572784, AA513884, A1306232, A1583466, N52410, AA613754, AA249239, AC004859, AC005335, AC005332, AL096701, AL022069, AC006064, AL096773, AC004686, AC005291, AF001550, AC005005, AL121603, AC007773, AC004999, AC007637, AL109758, AC002344, AL021391, AC016027, AL133500, AC016830, AC006241, AC005102, AL031284, AC000052, AC005971, AC004216, AL049709, AC004000, AC005747, AC005375, AC008372, AC002477, AB023048, AC003664, AC004448, AL117338, U91323, AL020997, AL133163, L78810, AC008012, AC006130, Z86090, AC005280, AL035398, AL049653, AF196969, AC004253, AC005736, AC005919, AF019413, AL024508, AC006441, AL008720, AC002059, AC009399, AL023807, Z84487, AC005015, AF111168, AC006509, AC006121, Z95152, AC004801, AC004134, AL034420, Z83843, AC009247, AC001228, AL049775, AF190465, AC004832, AC007298, AF001548, AC004810, AC002312, AC007325, AC004791, AC004106, AL035683, AL021707, AL031683, AC004672, M63796, AC002476, AC004938, AC007312, AL050307, AL031659, AL022238, AL050341, A1738093, AL022322, AP000511, AF196972, AC005057, AC009464, AF217403, AC003687, AC003394, AL031657, AC004812, AP000032, AC006023, AC004019, AC005808, AL049636, AC002351, U97563, AL008707, AL079304, AC005288, AL031311, AL121658, AL031005, AL034429, AC003108, AP000089, AP000142, AL022316, AC007364, AC006539, AC004887, Z83826, AC002094, AC005049, AC006360, AL035400, AC002126, AC004526, AC004033, AL049766, AC005037, AC006362, AC004491, AD001527, Z99128, D87675, Z98304, AC006285, AC002996, Z84469, AF048729, AC003101, AL109627, AL049911, AL008719, AC006947, AC007308, Z93244, AC003025, AC006455, AC000134, AC004878, U62317, AC005180, AC004985, AF001549, AC006552, Z83844, AC006480, AF111169, AC008273, AF207550, Z83856, AL050318, AC007263, AC006312, AL079342, AP000961, AC000120, AC005800, AC005089, AC007878, AC005229, AC004996, AC004223, AC003663, AC007201, AC006344, AL031228, AL133245, AF139813, AF205588, AC004821, Z97053, AC002470, AF047825, AC004655, U91326, U80460, AC005520, Z98752, AF111170, AC003982, AF030453, AC004510, Z96258, AC004222, AC005839, AP000502, AC005632, AF196779, AC003690, AC004386, AP000104, U95090, AC002306, AL096767,</p>
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HCUEB62	557	579058	1 - 364	15 - 378	AC006530, AL031774, D63507, AC004131, AC002302, AC007056, AF108083, AC004962, AF086394, AL031230, AL117337, AC005670, AL035413, AL031447, AF024533, AC002044, AC007566, A1246003, Z84480, AC007934, AC006026, AC005071, AL031427, AC002565, AC009248, AL109657, AL121653, AL0233575, AC005399, and AC003103.
HCUEC06	558	935769	1 - 94	15 - 108	
HCUEC78	559	850066	1 - 319	15 - 333	H81012, H86221, AΛ018923, R64467, M87891, U14684, AL034429, AC004938, AC007376, AC004188, AC006480, U14701, AL022316, AC002477, AC005527, AC002416, Y14768, AC005620, AC005197, AC005907, AC000052, AL020993, AC002375, AC007055, AC006538, AP000505, AP000516, AC007707, U91629, AC004797, AC006263, AC005488, AC005914, Z82201, AC005529, AC005911, AC005410, AC007666, AC004019, AF111168, AF129756, AC005399, AC006449, AL139054, AL035587, AC005632, AP000512, AC005746, AC002310, Z74739, AC006511, AL023803, AC005667, AF001975, AC005753, AC004678, AL022237, AC002303, AL034420, AL021578, AL133448, AP001065, AL031311, AF053356, AC003043, AP000065, AC005971, AP000354, AF045555, AC004859, AC002551, AL118497, AC005003, AF134726, AC000405, AF165926, AL035086, AC005841, AL133163, AL050321, AL035405, U12387, AC007686, AC008015, AC005722, Z95114, AB014087, AL049766, AL020997, AL031447, AF001549, AL096677, AC006211, AC005777, AC005288, AL050308, AP000555, AC005409, AC005088, AC002104, AC004491, Z97055, AC007011, AC006077, AC002470, AF111169, M87898, AC004686, AC000025, AL031985, AL034423, AC006441, AL121603, AC002492, AC004190, AC005037, Z98941, AC003663, AC004671, AP000503, AC004659, AC005682, AL008718, AF037338, AL031662, AC005619, Z81365, AL022326, L78833, AC006064, AC005954, Z97876, AC006130, and AC005486.
HCUED04	560	615410	1 - 324	15 - 338	Z94044, AC005480, AC006388, and AL022316.
HCUED66	561	576573	1 - 449	15 - 463	
HCUEE04	562	653118	1 - 290	15 - 304	AA305339, AL121572, and AL022341.
HCUEE29	563	578709	1 - 240	15 - 254	AW297855, AA932284, AI911033, AI540093, AW105017, AA829228, AA814442, and AA768919.
HCUEE41	564	578715	1 - 235	15 - 249	
HCUEE63	565	745184	1 - 100	15 - 114	AP000096, and AP000240.
HCUEE66	566	578702	1 - 207	15 - 221	F37223, AW419118, F31799, A1446638, F23274, H64560, AI791610, AI867044, AW023672, AA381762, AA299115, AA548087, AI223616, AI287485, AW078552, AI053465, AI918421, AA399158, C06471, AI679713, H04867, AW130254, AA086236, AA469451, AW341903, AI439269, AI151261, N25303, AW129694, AI635274, AI679139, AI338426, AW302013, AI240891, AW152111, AI285696, M77950, AA913549, AW057776, AL044858, AA584489, AL138421, AI565873, R94974, AA609841, T47280, N58729, AA229444, AL039187, AA913114, AA302732, AI939465, AA527606, AA527716, AW130535, N20066, AW085801, AI110688,

AA230143, A1469968, AW273469, A1753365, AA573540, N35896, A1888752, A1821044, AW192199, H47540, A1732239, A1267356, A1075744, AA757743, AA629702, A1536625, AA329321, H08791, A1821467, A1754023, W90337, R94721, A1124660, A1370270, I171349, AA528390, AA347835, AW085991, H86579, A1932884, A1207584, AA721577, A1570261, AA947837, AA018923, AA012829, AW368401, AA323085, R71981, AA720664, AW131213, A1811460, AA384039, A1539776, AA078483, A1267450, A1201668, A1929796, H96823, AW175641, AW192518, AC004935, A1096775, AC006571, AL022330, U80017, AL117694, U78308, AC004032, Z99128, AC000070, AP000080, AF049895, AL096774, AC005740, AC004582, AP000134, AP000212, AP000030, U40369, AP000356, AC006001, D87675, AC002451, AC007842, AF070717, AL009173, AC020663, AC002350, U76377, AL033539, AL035411, U02068, AL031005, AP000320, AC004617, AP000251, AL132712, AC005485, AL034430, AL096755, AL049874, AC004895, AL109885, Z72521, AC002369, AC006328, AC007681, AC005911, AC000003, Z94277, AC006561, AL022237, AL135744, AC004258, AC004773, AC006146, M87914, AC005291, AC007543, AL035681, AP000120, AP000167, AP000052, AL034417, AC005215, AL023577, AC005150, AL022395, AC007919, AC005007, AC007327, AP000502, AF064857, Z93241, AC005040, AC002524, AC006312, AC006062, U73168, AC007227, AP000353, AL022323, AC004383, AC004884, AL121877, AC004384, AC006120, Z98255, AF095725, AC000039, AC005771, AC005759, AC003102, AC007381, AL096707, AC002126, AC007565, AC007501, AC007632, AC002985, AP000142, AF117829, AP000113, U60274, AC007314, AC006538, AP000090, AF134726, Z83845, AC005516, U07000, Z98050, AC004841, Z95115, AC002565, AL020993, AC008125, AC002564, AL121653, AC003109, AF111168, AC005703, AL049712, AC006544, AC005095, D00591, AC002504, AC005264, AC005209, AC005102, AC005180, Z99943, AC004511, AC004024, AL022324, AC004003, AL035410, AC012599, Y14768, AC005993, AC004152, AC016025, AC007250, AC007050, AC005595, AC004813, AJ003147, AC006251, AC005788, AC005200, AC005245, AL049576, AL031846, AL034402, AL022320, AC005280, AL049557, AL078639, AC006543, AC005875, AC007387, AC007695, AC002056, AC004462, AC008134, Z75888, AC005841, AF003627, AP000143, AF129756, Z83844, AC002525, AC005994, AC005304, AC005914, AC005251, AC007966, AL022318, AL035587, AC009946, Z86061, AC005696, Z80232, AL035659, U47924, AC003041, AL022578, AC004584, AC006013, AC002314, AC007537, AL035415, AC004517, AC005003, Z99497, AC004491, AC004453, AF123462, AP000031, AC004678, AL021453, AF053356, Z83826, AC004745, Z93942, AC006455, AC005829, AC000379, AC004650, AL031709, AC005670, AL022328, AL035450, Z75887, AL117354, AC005520, AC004230, Z68756, AL021808, AC006515, AL021368, AL031584, AC007207, AL117256, AC007666, AC004838, AC007845, AL021395, AC007308, AC000072, AL031729, AC002470, AP000966, AF079797, AC005328, AC005909, Z83851, AC008062, Y11873, AL109628, AC003688, AC005031, AB017652, Z93783, L77569, AC008273, AC007878, and				
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HCUEE83	567	578703	1 - 406	15 - 420	<p>AC006948.</p> <p>AI801482, AA847499, AA493621, AI281697, AA649642, AI783494, AA502711, AI358501, AI613280, AI192631, AI138421, AA368936, AA846935, AW407578, AA713891, AW276435, AI282511, AI338350, AA491862, AI281881, AA573543, AW338086, AA467820, AW021583, AL036037, M86143, AA744018, AI537955, AI903462, AA526758, AW028403, AW406447, AW408047, AA469451, AI919265, AI824562, AA526536, AA658362, AI635458, AI281903, AA491650, AI633390, AW264934, AI457397, AI921296, AA507824, AI473475, AA468244, AA468505, AI610607, AI469172, AI570212, W38404, AW129694, AA133333, AI110770, AI093122, AI745325, AI133164, AA405493, AA526779, AA629874, AA523838, AI832016, AA743716, AA577959, AA516020, AI676218, AW130535, AW148792, AA492081, AA578481, AW084252, AI379719, AW044351, AW085740, AA134959, AI287528, AA484373, AI031281, AC006160, AC005324, X54180, X55931, AC004813, AC006241, L47234, Z82097, AC003007, AL022313, AP000031, AL035587, AC002996, AC005730, AC004605, AC005763, AC000070, AL021937, AC005632, AL021939, AF123462, AL009179, AC010200, AL022329, AC006130, U07562, X54175, AC004755, AC005212, AC003965, AC006026, AI109984, AC004019, AF196970, AC004492, AC004858, AL031432, AP000349, AC004671, AC007845, AI133448, AC003108, AC004596, AF196779, Z92845, AP000514, AC007193, AL031428, AC006275, AD000092, AP000359, AC005696, AC005527, M87919, AC004686, AF109907, AC005175, AP000135, AC006139, AC005183, AC008079, Z81313, AC002045, AC005901, AC005088, AC006058, AC005837, AP000117, AC002368, U47924, AC000052, AF165175, AC007666, AP000326, AC006040, AC006487, Z97630, AL031255, AL035411, AI121748, AC004984, Z69890, AC004152, AC006449, AC005102, AC008044, AF010238, AC002119, AP0009503, AF039401, AC005529, Z83844, AP000054, AP000169, AP000122, Z84476, AC002385, AL034418, AC005531, AC007617, AL079295, AC003029, AC005988, Z93244, AC006001, AC004263, Z98051, AC002470, AL121778, Z98044, AC006205, AC004881, AC004156, AF165141, AC007919, AF088219, AF001549, AC002984, AC006251, AC003070, AC003665, AC002476, AC007324, AL049759, AC007766, AC003098, AC005410, AL049795, AP000244, AC002395, AC004827, AC005089, AC007055, AC004815, AB023049, AF111167, AL008635, AC004765, AC005839, AC007066, AC005237, AC004186, AL035086, AL035415, AF134726, AC006327, AC006285, AC003966, AC006960, AL079340, AC004913, U78027, AC005913, AC008101, AC005011, AL121769, AL049709, AC004228, AC005914, AL008583, AC004998, Z69838, AL031295, AC006512, AC006312, AC002301, AL080243, AC012627, AB020871, AP000493, AC005231, Z97056, AL121934, AC010170, AL078474, AL023580, AL022577, AC005057, AP000123, AP000213, AC002365, AC008055, AP000194, AL035422, AC005296, AC005412, AC004972, AF039907, AF038667, AL031602, AC006367, AL031283, AC005409, AL034421, AP000512, AF165142, Z84480, AC002316, AF053356, AC005756, AC000379, AC005778, AC005071, AC007262, Z98742, M84472, AC005332, Z84484, AC009044, AC007967,</p>
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HCUEF90	568	578714	1 - 199		15 - 213	AC005913.
HCUEG58	569	784414	1 - 113		15 - 127	AF024533, AF030453, and AC005088.
HCUEG90	570	578745	1 - 141		15 - 155	
HCUEJ55	571	959552	1 - 110		15 - 124	
HCUEJ69	572	757657	1 - 526		15 - 540	
HCUEK37	573	964869	1 - 331		15 - 345	AA782338.
HCUEL28	574	706456	1 - 289		15 - 303	AI097211, AI446336, R92902, AI539685, AA775205, AI438967, AC007021, AC007564, U95739, AL049576, AC006077, AC006312, Z85987, AC005821, AC003663, AC006323, U95743, AC003026, AC011331, AF001549, AF029308, AC003037, AL136453, AC006965, AC005011, AC005764, AL023807, AL096774, AC005740, and AC005886.
HCUEL91	575	576568	1 - 119		15 - 133	
HCUEM23	576	576379	1 - 373		15 - 387	AC006531.
HCUEM35	577	861545	1 - 307		15 - 321	
HCUEM62	578	576575	1 - 248		15 - 262	
HCUEM34	579	706452	1 - 333		15 - 347	
HCUEM58	580	738225	1 - 453		15 - 467	
HCUEO17	581	932118	1 - 252		15 - 266	
HCUEO30	582	769203	1 - 274		15 - 288	AL039309, AA985145, AA558404, N52501, AI884861, AA657910, T55707, AA904211, H48017, AI431513, AI049504, AW341882, AA486819, H86579, AA774006, AA662431, AI800343, AA584756, T02817, H47295, AW089016, AA527109, AA502813, AA018923, AA012829, AI583291, AI816136, AW081503, AI471455, AW407388, AA053463, AW117723, AI826857, AW392414, AI251576, AI687343, AI306232, AW274191, W63553, AI583466, AI201668, T59930, R48980, AI306717, AI811647, AA429481, N22395, AA368329, AA599749, AA577855, AI031759, AA827383, T74524, AA214109, AA768179, AI628859, AW019964, AA434078, W92433, AI801824, AA339789, H86133, AA347867, AW301855, AA767257, AA548692, AW148886, AI697383, AI065031, AW029626, AI888050, AW117704, AI417586, AI300818, AL041924, AI310992, AA745628, AI267356, AA278496, AA287502, AI267459, AI369925, AA535756, AI434365, AA573000, AA374797, R02063, AW009653, AI831172, AA993165, N59744, H53284, AI279417, H73306, AI002863, AI869797, H54252, AL041352, AI049680, AA302978, H47296, AA916794, R84528, AA947265, AA078509, AW190277, AA486820, AI340151, AA364073, AA374525, R39627, AI872461, AA230146, AA773171, AW162303, AW084173, AA878407, AI459866, AW162047, AA295899, AI277318, AI860535, AW161786, AW117915, T51436, AI873627, AC002128, AC006356, AC004685, AL050338, AC004554, AC005518, AC006512, AC006023, AC008101, AC008079, AC007567, AC005722, AL031985,

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HCUEO31	583	576551	1 - 229	15 - 243	
HCUEO41	584	576524	1 - 447	15 - 461	AW248352, AW249168, and AA628425.
HCUEO62	585	578713	1 - 387	15 - 401	
HCUEO79	586	850090	1 - 330	15 - 344	AA129273, AA129373, A1761842, F20339, AW291115, AA485396, AA835966, AW079768, A1287824, AW243878, F32537, AW190297, A1379711, A1828574, AA830626, A1758715, AA464646, A1560298, AA629936, W31910, AA936135, AA810103, AW087812, A1801167, A1559162, AW087203, AL021407, AL137300, AF019767, AL133104, AC002480, AF030635, and L78810.

HCUEP01	587	913675	1 - 449	15 - 463	AC004967, AC005206, AC005667, and AC005519.
HCUEQ37	588	881486	1 - 349	15 - 363	AL008718.
HCUEQ56	589	751410	1 - 442	15 - 456	AW452694, and AA972635.
HCUES29	590	579033	1 - 406	15 - 420	
HCUES34	591	850096	1 - 406	15 - 420	AA084609, AI132309, AI678287, AW151848, AA757621, AL037927, AI962030, AI306717, AW084173, AI567076, AA984920, AW023389, AW402784, AI065031, AL042753, AW238495, AI186233, AA825827, AA496309, AA584655, AA747375, AA584756, AI689135, AW192179, HI29914, T67090, AI303008, H40478, AW328027, AA551548, AL078581, AC007199, AC005821, AC005736, AC005081, AC005722, AC007285, AC005520, AL049301, AL049538, U80017, AC002477, AC020663, AI031311, AL021453, AC005015, Z69921, AF129756, AC000120, AC002314, AC006530, Z69653, AP000065, AL035400, AC005519, AP000512, AB001523, AL117258, AF207550, Z98742, Z99128, AC007225, AC004858, AC006146, AC005696, AC007386, AL133245, AP000121, AC007686, AP000045, AC007363, AC000041, AC002115, Z86090, AP000704, AC002350, AC005102, AL049697, AC005057, AC007537, AF064861, AC002306, AC005280, AC004560, AC003957, AL031602, Z98941, AC005899, AC005837, AC005488, AC002059, AC000353, AC004622, U91326, AC004531, Z83856, AP000688, AF111167, AC004967, AL022316, AC002544, AC005746, AC004841, AC000118, AF001548, AC005682, AL049758, AC005220, AC003041, Z93930, AC007327, AC006312, AC004796, Z93244, AC004685, AC005829, AB003151, L4140, AC004962, AC004659, AC005562, AC007868, AC004408, AL096701, AC005049, AC004019, AC005500, AL023553, AB014079, AF165926, AL078463, AC009509, AC004477, X64467, AC006026, U63721, AC006120, L77570, AC004263, AL009179, Z95152, AF111168, AC004491, AC007240, AC006023, AF053356, AL022326, Z97054, AC007731, AC001231, AC005484, AC003982, AC005094, AC004686, Z83844, AP001058, AC000159, AC007367, AL031985, AC005412, AL049843, AC006538, AL021917, AF045555, AC006077, AL031295, AC003029, AC004383, AC002039, Z81364, AP000008, AC002492, AP000208, AP000130, AL096791, AC004148, AP000355, AF196969, AC002312, AL031662, AP000556, AL139054, AC007637, AC006111, AC005387, AC005355, AC012384, AC005288, AL021546, AC006254, AC007536, AC005031, AL035420, AL022165, AC004655, AC004583, AC004876, AC005529, AP000044, AL049776, AF003626, AF196971, Z68284, AC007314, AC006130, AL034420, AP000112, AP000504, AC002299, U62292, AL109984, AC006285, AC005952, Z84466, AC006141, AL049569, AC004675, AL009181, AC005237, AC005730, AC005772, AL031282, Z83826, AP000558, AC007384, AL031587, AC007387, AL050341, AL135744, AC008372, AC006011, AC005618, AP000113, AC000026, AF196970, AC002094, AC006014, AC007226, AC002395, U63630, AF001549, AP000692, AC006441, AC004859, Z97056, AL080243, U91321, AC005632, AF006501, AC006101, AF134726, AC005212, AC002316, AC004755, AD001527, AL109827, AC005756, Z95116, AC006947, AL022324, AC006449, AP000248, D87675, AF038458, AC004941, AL020997,

						AC002369, AL035086, AC005781, AP000555, AL121603, AL021707, AC007283, AC006344, AL133243, AC007263, AC005527, and AC007229.
HCUES93	592	576498	1 - 415	15 - 429		AC004821.
HCUEI13	593	657258	1 - 160	15 - 174		AW292137, AL039500, A1248007, A1078021, A1759999, A1476735, and Z95437.
HCUEI27	594	506339	1 - 167	15 - 181		AA353854, AC004659, AC004771, AC005914, AC005245, and AC007182.
HCUEU10	595	964857	1 - 269	15 - 283		AC007281.
HCUEU20	596	970780	1 - 274	15 - 288		
HCUEV08	597	959670	1 - 340	15 - 354		Z95116.
HCUEV17	598	905316	1 - 1428	15 - 1442		AA585439, Z28355, Z30131, A1525556, A1535639, AA585101, A1541374, AA585453, A1557731, A1547039, A1525431, D80253, A1541365, AL045817, A1525306, AL041142, AL041238, AL041133, AL047183, AL040322, AL041131, AL046330, AL041051, AL041292, AL040119, AL047036, AL047170, AL047057, AL047219, AL041227, AL040463, AL039915, AL040625, AL043612, AL041197, AL040155, AL041346, AL040529, AL041096, AL047012, AL041358, AL041277, AL041163, AL041098, AL040621, AL043538, AL041324, AL040464, AL044162, AL041086, AL043496, AL041296, AL041233, A1540967, AL040510, AL041159, AL045725, AL041140, A1546999, AL040193, T11028, AL043467, AL044186, AL041278, AL044037, AL040091, AL040128, AL040168, AL040553, AL040255, AL040285, AL040342, AL040332, AL040617, AL045684, D61254, AL040745, AL040370, AL043677, AL046442, R29445, AL040149, AL040839, AL041752, AL043775, AL044165, AL043492, AL041602, AL045920, AL038838, A1546945, AL044074, AL041635, AL045990, AL040253, AL040458, AL044199, AL044187, AL040090, AL040263, AL040294, AL040329, AL040082, AL044272, AL041186, AL040148, AL041730, AL041523, AL043627, AL046392, AL041374, AL040052, AL043845, AL043537, A1541523, AL039338, AL042135, AL044064, AL038983, AL039316, AL043923, AL043814, AL043848, AL041459, AL043570, AL041577, AL044201, AL044258, AL046850, T23985, AL038532, AL040768, AL037727, A1526194, AL046994, AL040414, AL040571, AL040576, AL046914, A1142134, AL045753, AL044274, AL079878, AL049018, AL040444, AL045857, AL039744, R28735, AL038822, AL045671, A1536138, AL040238, AL046327, AL041168, AL049069, AL043444, AL040075, A1557262, A1541514, AL041246, AL040472, AL041347, A1541535, AL041955, AL038761, T23957, AL080031, T41289, AL045989, A1556967, A1546828, AA585476, R29177, AL044529, A1525316, A1557787, A1526073, D51250, AL046147, T23888, D80219, A1546891, A1546855, AL039643, A1541508, C16305, A1525320, AL042096, A1526140, D59787, AL037436, AA585434, A1541510, D80043, AL039360, AL037435, C16300, AL039924, D80227, AL045794, A1535983, AL044125, AA585356, AA174170, D57491, AL079852, A1541307, D80240, A1535660, A1557799, A1546875, AA585440, A1541017, AL043441, AL039150, A1557807, A1541205, AL038821, AL039085, D80134, AL043445, A1541534, A1541509, AL045211, AL039156, D51423, D55233, A1557238, T24112, T24119, AL039564, AL039538, T11051, AL039108, AL039678, AL039074, AL038837, AL039625,

AL039648, AL039629, AL037726, AL038531, AL039109, AL040992, AL039128, AL044407, AL039386, AL036973, AL045337, A49045, AR062871, AR054109, I44516, AR035224, A94046, A94054, AR038307, AR038321, I25027, I44515, I26928, I26930, I26927, AR009151, AR027099, A29109, A32111, AR068508, AR068550, AR068510, AR068509, A23373, AR068551, I58322, I58323, I91969, A91752, A91751, I25041, A92081, A92080, A92077, A92078, A92079, I07209, I07249, A63954, AR009152, AR017907, AR062872, AR062873, A20702, A20700, A43189, A43188, A84772, A84776, A84773, A84775, A84774, AR067731, AR067732, A58522, A91750, I05430, I05393, A10617, AR028792, A01324, A01323, AR034783, I63120, AR067733, AR064322, AR064323, AR064320, AR064321, A94048, A94061, I85513, A70359, A32110, A83642, A83643, AR018924, AR018923, A48774, A48775, AR000006, AR015960, AR015961, AR000007, AR051652, A92666, A92668, I49890, A92667, A92665, AR019094, AR028791, AR028793, AR003585, A18053, A75888, I70384, A18050, A85308, AR007512, A91754, A44171, A63067, A51047, A63064, A63072, A49700, AR031375, AR068507, AR068506, I58669, A58521, A60213, A23334, A60207, A60208, A60111, A23633, I06859, I66487, A02712, A95051, AR043601, I84554, I84553, E13740, A35536, A35537, I13349, I60241, A11245, I60242, A02135, A02136, A04663, A04664, A02710, E12615, AR035193, A92133, A07700, A13392, A13393, I66498, I66497, I66496, I66486, AR027100, I28266, I21869, A70040, A10361, AR031374, I08051, AR038066, A95117, I19525, M28262, A91965, U87250, AR051957, I66494, I66495, AR035975, AR035977, AR067734, I48927, A25909, AF082186, A1244004, A1244005, A1244003, AR038855, A98767, A93963, A93964, X68127, A1243486, AR038762, AR051651, S78798, A98420, A98423, A98432, A98436, A98417, A98427, AR035974, AR035976, AR035978, A85395, A85476, Y16359, D78345, AR025207, AR037157, I18371, I44681, A67220, AR008430, AR066482, A85477, A85396, X83865, AR016495, D34614, A86792, A93936, A1244007, A93016, A58524, A58523, I15717, I15718, E03627, A60212, A60209, A60210, A60211, A77094, A77095, A81878, A64973, I08396, I62368, I00682, A11623, E00609, A11624, A11178, E01007, I08395, X55486, I03331, E14304, AR031488, I13521, I52048, A27396, I44531, E16678, A82653, E16636, A90655, I18895, A24783, A24782, A27169, I09267, I09270, and I09268.					
AA531044, AA366245, H88258, A1636734, A1870453, AA508036, AA525293, AA469327, AA877992, AA593471, A1918419, A1609972, A1305258, T05834, T40388, AW192530, A1623563, AW089016, A1270476, AA564671, R82650, AA493789, AA947369, A1275183, AW162227, A1750125, AA502207, AW102811, A1926102, AA482953, AA366601, A1306717, AA601728, A1521525, AA381762, AA581247, H71738, T95676, A1915293, A1587467, AA613164, AA779783, AL119247, R92629, A1524540, AA084609, F35097, AA525331, A1537368, A1280535, AA595554, A1580707, A1689019, AA228778, AW020150, AA568980, C14480, T54464, A1753365, AA536040, AC007308, AC002470, AC007546, AC000041, AC007686, Z84469, AD000812, AP001053, AC004491, AC003663, AC004817, AP000702, AC005225, AC007041, AF001549, AL133382, AF024534, Z98200, AL031257, AC002477, AC005736, AC004991,	599	750364	1 - 393	15 - 407	

					<p>Z99128, AC005924, AC005694, AC006165, AC005037, AL021546, Z95116, AC005620, AP000141, AC007938, AC002126, AC002375, AC007057, AL035587, AC007731, AL049872, AC005192, AC007298, AF060568, AC005666, AC004859, AC003043, AC007011, AC005500, AC005911, AL035072, AF207550, AL034343, AL049764, AC005325, AL121603, AL049694, AP000065, AF053356, AC005971, AL031985, AC006958, AL109801, AL049757, AL049760, AC002350, AC004985, AC005086, AC005207, AB003151, AC006211, AC005821, AC002115, AC005081, AC002996, AC004953, AL049795, AP000688, AL117694, AL078463, AC004805, AL109628, AC007314, Z95114, AL031432, AB023051, AL049869, AP000300, AC004477, AC002316, AC000085, AC005206, AL035249, Z81314, AC009510, AC002550, AC005175, AC004560, Z94802, AC004777, AL109963, AC007327, AC005484, AC005480, AF165926, AC004955, AC004551, Z82217, AC006501, AC002400, AC004883, AC002990, AC005005, AC006111, AC005585, AF196779, AC004079, AC004033, AC005412, AC007226, Z83822, AL009181, Z98257, AC007993, AC007227, AC005752, AC005921, AF038458, AC002425, U80017, AC002094, AC002300, AC004217, AL022238, AC004815, AC018633, AL109952, AL034429, AL049631, AC007382, Z97352, AC004549, AL031777, AC009464, AC005057, U95090, AC004890, AC007917, AL117354, AF001550, AF111169, AC005667, AC004778, AC004796, AC005914, AC004099, AC007690, Z98752, AC003029, AC006312, AP000032, AL008718, AL031659, AL031680, AC004386, AL096701, AC007199, AC008038, AC004167, AC004922, AP000045, AP000113, AP000116, AL021578, AC003101, AC002544, AL031984, U78027, AC005011, AC005274, AL049748, L23859, AC005740, AP000512, AC006023, AL122020, AL021155, AL035683, AC004212, AP000311, AC004156, AC005722, Z85986, AC005529, AL031594, AL049643, AC004616, AC005330, AC005305, AC005907, AC004967, AC002119, AC005355, AC006449, AC005913, AC005332, AL13353, AL049843, AC019014, AC005328, AC005071, AC004000, AC005058, AD000092, AC006509, AC005377, AL078638, AC006011, AC004526, Z93930, D87675, AC005783, AL022302, AC004876, AC006237, AL049709, AC006276, AP000143, AP000047, AC004743, AC007225, L78833, AC004263, and AL035422.</p>
HCUEV82	600	881370	1 - 224	15 - 238	<p>AA348602, AI383596, AI798313, AI089178, AA553900, AL042987, M78032, AI809300, AA857812, AI038324, AI241637, AI347649, AI628922, AA179940, AA657416, AA655005, AA021139, AI309943, AW438946, AA558366, AA346861, AI474127, AA831426, AI090377, AA594719, AA484892, AI1188049, AI192465, AI347478, W76645, AA526542, AA569065, AI754421, R67701, AA683091, AA350406, R93854, AA215585, AA326452, AW264393, AA047849, AA808631, N47855, AW327852, AA557911, AI803741, AA572921, AI923052, N52323, AA297443, AC002429, AC005907, AL031311, AC005527, AL049636, AC003029, AC004584, AC000035, AC004966, Z85987, AC005529, AC005535, AC005036, AC004876, AC002312, AC000025, U82083, AL049872, AC004910, AL031005, Z94802, AC005057, AD000092, AC004841, D87675, AC004953, AC006487, AC004056, U73634, AL031295,</p>

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HCUEW19	601	576513	1 - 344	15 - 358	AI801600, AW193265, AL041368, AI350211, T06828, AA553465, AW104748, AI625244, AI688846, AA652057, AA649642, AI284640, AA831527, AA513972, AI918421, AA503258, AA669251, AW301350, AW303196, AW274349, AA346458, AI367975, T40617, AW193432, AW236342, AI580652, AI367497, F18974, AI345654, AA719805, AI708009, AI298710, AI282832, AI434695, AI355206, AI610159, AA501600, AI281697, AI270117, AI446464, AW129001, AI634384, AI287651, AA228420, AW406659, AA688036, AA594145, AA347927, AA347930, AW088058, AI872227, AA079515, AA984708, AA719080, AI341664, AL041690, AI469172, AA493206, AA251117, AA649705, T71030, AA557879, AI886629, AI805607, AW021747, AI696962, AI266133, F29702, AA664015, AL044940, AA745582, AA551503, AA368936, AW072587, F19012, AA747472, AA367986, AA568778, AL046409, AA824655, AA824654, AW439558, AI471481, AI002834, AA252763, AI138265, T15977, AI431303, AW276827, AA515224, F36273, AI613280, AI340453, AL041412, AI565582, AI291124, AW062724, AI802526, AI160117, AW238278, AA563926, F33511, AA100599, AI282336, U51696, AI291268, AW338086, AA302963, AW339568, AI375710, AA723017, U18396, X54176, U51997, U57004, X55922, U18399, U18393, U18398, U57006, X55930, U18394, U57005, U57009, U18391, U18392, X55925, U18390, U14684, X55926, X54180, U18395, U14701, U57008,

					X55932, U02063, X55931, U14703, U14707, U14702, X55928, U02048, X54175, U18387, AF196779, X54179, U18400, AF015166, S70699, AF147277, Z22650, Z30993, U67828, S70689, S70692, AF015149, U67827, AF064724, X53550, AC005799, Z49816, AP000553, AC007114, AF077058, U67829, AC005624, AC004381, AF015154, AC004542, AL117258, AF015151, AF001550, AF015157, AC007664, AF015156, AF015147, AC004929, U75285, AF164343, AC007874, Z95114, AL035417, AL031255, AC002045, AC009516, U67831, Z95115, U47924, X74558, AC005043, AC005535, AL008718, AC005527, AC007738, AC003007, U67233, AC006312, AF018071, AL031709, AL049776, AC004878, U67231, AB020865, AC004638, AL049869, AC006011, AP000297, AL021453, U85195, AF060568, AC003119, AF085444, AC005387, AC004955, AP000510, AL035659, U50871, AC005330, Z69917, AC005632, Z49235, X88791, AC006363, AC004876, AC000379, AD000092, AE000658, U29953, AC005412, X60459, AC003111, AL031589, AF134726, AC007064, AC000052, AC004797, AC004167, S77605, AC002091, AF147439, AC006116, AP000402, AP000517, AC000999, AC007041, AL034420, U67225, AC007055, Y14768, AP000501, AC005529, AL078603, AC009891, AC004069, AF038458, AL035587, AC002312, AC006111, AC006013, AF045555, AC004019, AC006285, AC005763, AL031259, Z82198, AF085913, AC005144, AC004812, X76629, AC004033, AL133243, AC004815, U67222, AP000505, AL022310, AC005324, AC005194, AC002307, AC004894, AC003006, AC004821, Z69921, AC002094, AP000338, AC007792, AC005821, AC004531, AF094481, AC004522, AL121655, AC005375, AC005072, Y14486, AC004785, AC007666, and AC004453.
HCUEW58	602	850061	1 - 395	15 - 409	
HCUEW71	603	881372	1 - 198	15 - 212	
HCUEX58	604	462365	1 - 343	15 - 357	H59974, H80899, AL020997, AC007308, AC005081, AF045555, AC007637, AC004686, Z95113, AC004953, Z81369, U95739, AC005049, AL079295, AC002302, AC004491, AL122020, AC005488, AL049869, AL008721, U89337, AC003009, AL031584, AF152365, AF222686, AC006013, AC003663, AC005325, AC007938, AC004854, AC006515, Z99570, AL117337, AL121655, AC005005, AF190631, AC006115, AP000510, AL022316, AC006101, AC007785, AL008726, AC004859, AC005391, AC005102, AL031311, AL132992, AC004477, AC004104, AC004019, AL080243, AL132777, AB023048, AC005632, AC009721, AC007263, AL022343, Z74617, AC006111, AC005971, U07562, AC004685, AC003029, Z82208, AC006271, AC005899, AC004832, AF064861, AL022318, AJ246003, AD001527, Z97054, Z93930, AC005288, AC003689, AC004762, AL109758, AC005015, Z98946, AC006040, AF001549, AC005011, AL121658, AC004893, AJ003147, AC004785, Z84467, and AC002369.
HCUEX74	605	953897	1 - 326	15 - 340	AF150416.
HCUEY29	606	920419	1 - 378	15 - 392	
HCUEY48	607	576519	1 - 387	15 - 401	R24915, N32878, R07374, AA748826, AA772016, AL287921, AL051037, AA626829, AA569065, AA745356, H91844, N64587, AA879053, AA055601, AJ984593, AW271917, AA657416.

HCUE788	608	576537	1 - 326	15 - 340	AA837715, AA655005, AI908575, AA525409, AA640617, AA457249, AA827771, AA888777, T03203, AL047411, AA176917, AA594188, A1537330, AF034193, AA613966, R80456, H79308, W02971, L78810, AC005048, AC006509, AL022163, AC007308, AC005920, AL049844, U80017, AL109963, AC005274, AC004000, AC005060, AL031666, AC005231, AL035420, Z68223, AC004148, U82828, AF165926, Z99716, AP000501, AC007276, Z82244, AC004895, AC005606, AC005914, AL008635, AC005701, AC006449, AC007055, AC005280, AC005363, AC004887, AL022320, AC006285, AC004646, AC005081, AC004228, AF109907, AC005378, AC006441, U73024, AC002350, AC002394, AC006241, AC005411, AC006011, AP000356, AC005913, AC007876, AL031283, AC004623, Z83840, AC005023, Z98051, AC006050, AL020997, AF196779, AC004217, AC002301, AC005206, AC004209, AC005406, AL020995, AC004858, M30688, AL035460, AC006538, AL031431, AF207550, Y10196, L44140, AL031295, AF064861, U47924, AC002133, AC005667, Z93930, AP000065, AC007263, AL078581, AC005102, AP000472, Z82214, AL021918, AL035683, AC003695, Z82201, AL035410, AF172277, AL035413, AC004528, AC004019, and AL121603.
HCUE788	608	576537	1 - 326	15 - 340	AI028483, and AW023910.
HCUEA05	609	932116	1 - 385	15 - 399	Z93023.
HCUEA38	610	675677	1 - 324	15 - 338	AA626710, AW138429, A1087993, A1077877, N69907, AA657613, AW162236, A1161164, A1356294, and AC004067.
HCUEB15	611	660460	1 - 257	15 - 271	
HCUEB89	612	746601	1 - 305	15 - 319	
HCUEC22	613	951134	1 - 306	15 - 320	
HCUEF09	614	625728	1 - 292	15 - 306	T64920.
HCUEG64	615	576574	1 - 102	15 - 116	
HCUEH32	616	920281	1 - 227	15 - 241	AA679737.
HCUEK94	617	722999	1 - 175	15 - 189	
HCUEL02	618	932429	1 - 447	15 - 461	AC000159, and AB007864.
HCUEFL15	619	575844	1 - 448	15 - 462	
HCUEFL35	620	677853	1 - 413	15 - 427	R98755, R98754, AA642005, and AW292993.
HCUEFL77	621	575843	1 - 357	15 - 371	R09221.
HCUEFM60	622	730707	1 - 444	15 - 458	A1824558, A1375432, AA887250, A1914747, AA558412, H93568, A1003725, W89152, AC007229, AC000353, Z99716, AP000355, Z95114, U91321, AL034400, AP001052, AL021155, AC004821, AL133500, AC004985, AL049869, AF134726, Z73964, AC004812, U91318, AC002070, AC003950, AC005441, AC007227, AF001549, AC005829, AC004834, AL022476, AC002394, AC005919, AF064860, AC004687, AC005484, AC004382, AC004491, AC006016, AC002126, AC007565, AC005527, AC002996, AC005971, AC007371, AC004448, AC005057, AC005182, AC004646, Z97054, AC004851, Z98044, AL022313, AC009330, Z79997, AC000003, AC009542,

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HCUFM65	623	576809	1 - 452	15 - 466	R47962, AA731533, and A1950023.
HCUFN65	624	741927	1 - 487	15 - 501	AA046457, A1373707, A1864613, AA034000, and AA015959.
HCUFP13	625	576582	1 - 339	15 - 353	
HCUFP76	626	861703	1 - 293	15 - 307	
HCUFP91	627	575864	1 - 140	15 - 154	
HCUFQ80	628	709357	1 - 455	15 - 469	R89560, AA483606, AA570740, AA568204, AA664126, A1250262, N63755, AW083408, Z22963, AA015948, AA768179, AA482725, R89906, T05684, AW152348, AA565679, AA302978, AA633981, A1114772, A1866911, AA503018, AW002330, AA731361, AA487209, AW151018, A1821382, A1820534, H56703, AL120052, AA626411, A1801649, T50251, AA676592, AA810837, AL039801, AA229823, A1065038, F35684, AA228979, A1804539, N24909, A1889579, T51436, AW272815, AA572921, T63030, AA515723, N71619, AA564925, AA837771, AA745297, F31811, AA297006, A1800345, T05617, AW419126, H62923, A1709180, AA228442, AA862075, R34070, AW021608, AA507343, A1791437, N37070, A1732483, F00949, AL041895, H07953, H69653, N95817, A1206078, AL048838, AL041019, AL048825, AA177013, H59651, AW409763, AP000163, AB022537, AC005841, AL031228, AC005858, AB019437, Z95704, AC005192, AC002377, AC003083, AL035494, AC005799, AC004986, AL031432, AC005632, AC004772, AF109907, Z97180, AC005837, AC006406, AC004858, AC004987, AL031277, AC002550, AC003007, AC005820, I34294, AP000548, AC000120, AP000365, AC007277, Z93023, AL022721, AC005089, AC004855, AF139813, AC006597, AC006512, AC007731, AC005500, AC005575, AL096701, AC004910, AC004526, AL096712, AC007227, Z83844, AP000561, AC006030, AP000116, AL049872, AL050318, AC005057, AL109980, AC004033, AC003025,

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HCUF26	629	575721	1 - 426	15 - 440	AC007879.
HCUF36	630	575831	1 - 251	15 - 265	
HCUF49	631	953896	1 - 337	15 - 351	AW403674.
HCUF58	632	725891	1 - 444	15 - 458	AA088560, AL733762, AL733719, and AA053641.
HCUF68	633	694410	1 - 312	15 - 326	AA077835, AL149915, AC005914, AC007785, AC005082, and AC006371.
HCUF91	634	828083	1 - 323	15 - 337	
HCUFV13	635	578459	1 - 357	15 - 371	AA361129.
HCUFV44	636	576650	1 - 322	15 - 336	AA618332, and AC004883.
HCUFW41	637	850007	1 - 571	15 - 585	T65857, AL678013, R44293, R40978, H24231, F01849, AW177822, T92856, AW177816, AC006537, U73166, AC006512, AC000353, AC005102, AC004685, and AC004458.
HCUFW61	638	862086	1 - 442	15 - 456	AL031666.
HCUFW75	639	575830	1 - 307	15 - 321	T08386, AL636734, AA947369, AA077619, R34070, AA830070, AW151018, F09355, AA598605, AL799421, AL459943, AW019964, AL271762, AA565319, AA612727, AL121287, AA788592, AA721554, AA664126, AW408767, AA745302, AA742818, AA878407, AA938390, AL052776,

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HCUFW83	640	577263	1 - 401	15 - 415		AW449501, and AI751021.
HCUFX24	641	577266	1 - 178	15 - 192		
HCUFX74	642	850067	1 - 564	15 - 578		
HCUFY27	643	669876	1 - 112	15 - 126		
HCUFY35	644	577130	1 - 337	15 - 351		AW339568, AW270284, AI305766, AI298977, AI565581, AW102955, AI345522, AA658235, AI357551, AI203955, AI344844, AL120008, AI340453, AI557323, F33121, AI708009, N69962, AI937850, AA225201, AI379719, W07122, AI110848, AI880168, AA657741, AI053786, AI254338, AI349874, AL134330, AA993198, AI801591, AI084012, AW169687, AW403720, AI345654, AW265009, AI802526, AA581903, AA569284, AW327360, AI697353, AA369477, AA484148, AF034176, AI423941, AI473943, AI889765, AI161293, AI923140, AI924251, AI888110, AI890928, AI890570, AW157326, T71998, AI225141, AW265294, AI358571, AL043756, AA715362, AA251117, AA715270, N43757, AL023575, AL031675, Z98950, AC006211, AL033397, AL049780, AC007055, AC006146, AL034419, AP001039, AC007540, AC005544, AF042090, AC005226, AL033381, AC005906, AC005245, X13921, AC002536, AL021391, AC002430, AC007384, AL049557, AP000295, AL109754, AC005856, Z85996, Z95113, AL022318, AC005684, AL022396, AC002394, AF091512, AC005548, AJ003147, AC004381, AL031311, AC003087, AC004228, AC022517, AP000354, AC007917, AC005821, U63721, Z82194, AC005274, AL137191, AC005386, U07000, AF011889, AC005772, AC004408, AL022147, AC006037, AL031668, Z98049, Z98257, AC007160, AL121580, AL031447, AC007652, AL034376, AC004770, AC006213, AF064866, AB015752, AF029308, AC005722, AL109758, AL132987, AC005070, AP000356, Z84814, AC006840, AC002470, AL034350, AC006996, AC005005, AC005912, AC008012, AL031368, AL034370, AC002070, AC007878, AP000245, AD000684, Z97205, AC009405, AL021977, AF001552, AC005664, AP000958, AC005697, Z93942, AC005820, Z94044, AC005694, AP000566, AC004887, AP000120, AP000167, AP000052, AC004941, AP000961, AC006253, AC006547, and AC005220.
HCUFY40	645	967273	1 - 194	15 - 208		
HCUFZ81	646	878882	1 - 346	15 - 360		
HCUGB48	647	880730	1 - 470	15 - 484		W24312, AA634926, F11421, AW007247, H60486, AA569089, AA938390, Z95331, AC006441, AL022316, AF111168, AL035659, AC012384, AC002378, AC002565, AC007546, AL079342, Z99716, AC005952, AC005225, AC005722, AL109627, AC004876, AP000356, Z83840, AC002119, AL109657, AC005822, AC005736, AC005089, AD000813, AC007066, AL049856, AC004832, AL080243, AL096791, AP000349, AL049709, AC005091, AC007011, AP000113,

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HCUGC96	648	575825	1 - 546	15 - 560		R64618, and R64619.
HCUGD15	649	660343	1 - 429	15 - 443		A1821309, T57758, A1820666, T91659, A1732244, T93260, AC007344, AC002542, AL139054, and AL109946.
HCUGF18	650	666495	1 - 309	15 - 323		AC009411.
HCUGF61	651	741842	1 - 393	15 - 407		
HCUGG25	652	678112	1 - 164	15 - 178		
HCUGH01	653	916600	1 - 316	15 - 330		R09190.
HCUGH30	654	778735	1 - 436	15 - 450		A1248117, N34987, and A1242866.
HCUGH34	655	706469	1 - 300	15 - 314		
HCUGH83	656	862078	1 - 188	15 - 202		AP000011, and AP000153.
HCUGI29	657	584711	1 - 669	15 - 683		AA011550, AA854029, A1808348, AA448255, H61005, AL035067, AL121934, and AC0000004.
HCUGI54	658	715310	1 - 154	15 - 168		
HCUGJ35	659	850046	1 - 280	15 - 294		AF150363, U25791, and Z64124.
HCUGK10	660	850035	1 - 347	15 - 361		AW131457, A1792578, A1054419, AA720732, A1244356, AW008089, U95742, AL121603, U91326, AC002544, AC004019, AL022476, AC005527, AC005668, AL034420, AC005670, AC008044, AC007216, AL031255, AL133245, AP000501, AC005971, AC006486, AC003104, AC010169, Z97205, AL022336, AC005484, AC005529, AL109985, AC006948, AL096791, AC003101, AC002312, AC004967, AL121658, AC005031, AC002470, U80017, AL109827, Z81364, AC005921, AC005839, AF205588, AP000105, AP000037, AL049795, U47924, AL117337, AP000354, AC002369, AF190465, AL031670, AF134726, AC005291, AC006441, AC005399, AP000228, AC006241, AC007201, AP000140, AC003688, AC005800, AC004230, AC006312, AC006384, AP000275, AC006511, AC006538, AC007386, AL021368, AL049776, AP000088, AC005482, AC006972, AC005412, AR036572, U91328, AC004655, AC006116, AC004526, AC005841, AC005539, AL049869, and AE000658.
HCUGK91	661	790218	1 - 135	15 - 149		A1049931, AA133226, and AC007685.
HCUGL14	662	658467	1 - 313	15 - 327		F33566, N71930, AL042753, A1888008, A1499094, AC002119, AC005772, AL031589, AF165926, AC006241, AC007676, AL031587, AC012599, AC005730, AL008582, AC005057, AC009248, U62293, AC005527, AC004686, U85195, AC006273, AL021154, AL035414, Z98051, AL133245, AE000658, AL096701, AL035684, AL050333, and AC002115.
HCUGL84	663	496491	1 - 304	15 - 318		
HCUGM08	664	959488	1 - 364	15 - 378		T63954, AA648150, AW438856, W04941, AW236344, H85059, A1016704, AA188665, AW277253, R44641, AA714586, AA593471, A1472075, R70333, AA297698, AA043218,

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HCUGN12	665	970727	1 - 444	15 - 458	AA702118, AW381452, W95006, W95007, and AC002375.
HCUGO02	666	920154	1 - 340	15 - 354	AA127364, AC004033, AC005500, AL049856, AC007731, Z98941, AC002477, AC006088, AC002390, and AL021391.
HCUGP83	667	850029	1 - 206	15 - 220	AC002559.
HCUGQ16	668	917269	1 - 343	15 - 357	Z54621.
HCUGQ18	669	666474	1 - 353	15 - 367	AI686509, AI670941, AI380740, AI652572, AI810486, AA251386, and AF070587.
HCUGR38	670	706471	1 - 332	15 - 346	
HCUGR82	671	916538	1 - 425	15 - 439	AA492380.
HCUGT92	672	692730	1 - 349	15 - 363	
HCUGU46	673	666815	1 - 200	15 - 214	
HCUGV38	674	850032	1 - 361	15 - 375	R96187, AA327572, R96188, AA582056, AW084237, AI791180, AI821138, AA508578, AW194802, AI623499, AA649148, AI932902, AA707289, AA669816, H54292, AI889612, AI623423, AA573189, AL041364, AA085863, AA380599, AA357240, AA078084, AA594725, AI926366, N54179, AI446638, T61853, AI660594, AA365144, AA584749, AI124660, AA650135, AA864575, AA806762, AA524668, AI863399, C14600, AI064952, AI963720, AA516326,

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				15 - 271	AI557735, AI541487, AI541489, AI526178, AI557747, AI541516, AI526200, AI557797, AI541491, AI557718, AI541501, AI526151, AI557724, AI557740, AW393605, AI526177,
HCUGV60	675	496443	1 - 412		
HCUGW04	676	960596	1 - 257		

						AI526179, AI541535, AI557789, AI541490, AI526127, V00124, V00125, J00032, J00030, J00036, J00034, J00037, J00038, AB010555, and AB010556. T86914, R11217, H81306, AL035495, AC005325, AC004836, AP000350, and AC020663. AA580889, F35659, AI446464, AI064864, H29303, AA610491, AI792108, AI079129, AW274349, AW303196, AW701350, W45336, R89436, AW338086, AA663306, AI886629, N27353, AA847997, T06652, AI872460, AA558227, Z81364, AL080243, AP000558, AP000557, AC009516, AC006016, AC007556, AP000556, AP000552, AC008372, D87001, D88268, AC007021, AC005574, AC004741, AC006019, D87675, AC004614, AC005542, Z84487, AC004859, AF011467, AL031686, AC006441, AL035411, AP000141, Z75894, Z75895, AC004467, AC006313, AP000088, AC004814, AL031122, AC005071, Z98884, AF090944, AL008582, AC004702, AC004894, AL031662, AC005899, AC000035, AC005049, AC004821, AC005690, AC004448, AC007934, AC005971, U95743, AL109963, AL024474, AP000104, AP001052, AC006925, AC006211, Z49236, AC006561, AC002369, Z84480, AC002456, AJ010598, AL031276, Z98052, AC002981, AC005531, AL035695, AL079340, AL031666, AL049856, AC006600, AL109847, U66059, AC004841, Z85987, AL133245, D86999, AC000090, AC006292, AL050332, AC006203, AF111168, AL023713, AC008984, AC004777, AL031767, AL022337, AC005799, Z84488, AC002289, AC002485, AC010072, and AL078593. AA494014, AI628859, AL041352, AW002330, AL035249, AC009247, AL121757, AC006057, AL121769, AC004217, AC004134, AL050341, AC006449, AC004143, AC005284, AC002369, AC005351, AC000120, AC005206, AC005667, U80460, Z83822, AC006315, and AC002128. AA629699, AP000346, AP000347, AL021368, and Z79145. AW440928, N58862, AA613460, and Z97989. W39262, AI797360, and AI823657. Z98036.
HCUGY26	677	953550	1 - 480	15 - 494		
HCUGZ15	678	792418	1 - 363	15 - 377		
HCUHA63	679	745094	1 - 296	15 - 310		
HCUHA74	680	576850	1 - 434	15 - 448		
HCUHB30	681	850018	1 - 438	15 - 452		
HCUHC25	682	920830	1 - 305	15 - 319		
HCUHC41	683	712343	1 - 354	15 - 368		
HCUHC45	684	671212	1 - 354	15 - 368		
HCUHC69	685	693007	1 - 189	15 - 203		
HCUHD50	686	650854	1 - 398	15 - 412		
HCUHD55	687	705384	1 - 479	15 - 493		
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HCUHE23	688	675910	1 - 314	15 - 328	
HCUHE31	689	693311	1 - 340	15 - 354	AA127426, AW023990, AA080866, AL031591, Z97056, AF131217, AC005512, X60653, AC004858, AC016831, AL096703, AF165147, AP001052, AC006088, AC005031, AC004084, AC005281, AC008132, AL031542, AC004999, U80017, AC005920, AF087913, AC005180, AF200465, AC005242, AC005189, AC007686, AC005908, AC005529, AL035422, AC005829, AC002477, AC008018, AC006064, AL050332, AP000493, AC008033, AC000025, AC004972, AB023049, AL035658, AC005695, AL096791, AP000555, AD000090, and AC006023.
HCUHE43	690	754187	1 - 314	15 - 328	
HCUHE48	691	835917	1 - 397	15 - 411	AI800436, AA746360, and AI800456.
HCUHE76	692	666599	1 - 319	15 - 333	AC002492.
HCUHF12	693	970685	1 - 543	15 - 557	AL023096.
HCUHF41	694	878528	1 - 529	15 - 543	AI254913, AA547947, AW302080, AW302087, H82133, AA846952, AJ932599, AA569661, AI082791, AL119691, AI253007, AI470239, AA507612, AI751216, AW303096, AW268291, T60681, AW410354, AI382825, AA491681, AI278972, AA569471, AI002941, AI923333, H90844,

HCUHH14	695	658452	1 - 197	15 - 211	AL039145, A1969436, A1866487, A1445088, AL120269, AA467984, AA630672, AA536016, AA320997, AW027660, AA760808, AC002551, AC003043, AL022721, AL031733, Z930117, AC004084, AC005049, AC005667, Z85987, AL022238, AC005620, AC005081, AC004167, U62631, AC006064, AC005295, Z93930, AC004797, AC002350, AC003684, AC004686, AC006236, AP000247, AC005562, AL109628, AF111167, AC004520, AC006538, AC005102, U89337, AL021707, AP000208, AL008730, AC007688, AC005251, AL0222328, AC004156, AC005071, AP000352, AC005015, AC006211, AC016830, AP000345, AL035684, AC005280, AF001549, AL133555, AL121603, AC005736, AC016025, AP000557, AP000295, AC006455, AC008101, AC006466, AL035458, AC002476, AC005971, AC005972, AC004491, AL021917, U63721, AC003966, AL080241, Z94801, AC005399, AC009516, AC004646, AL133245, AP000031, AP000117, AC005037, AL031588, AC006088, AL021155, AP000338, AF109907, AP000556, Z97054, AC007298, AL050321, AL022395, AC005288, Z93244, AL049830, AP000216, AC004921, AF205588, AC007687, AF196779, AC008132, AC002549, AC004707, AC005257, AC005519, AC002470, AC000118, AC004967, AC007686, AL050307, AP000210, AP000132, AC005837, AC005324, A1246003, AC004799, AC007011, AC004662, AC002288, AL031668, AC005225, AL031594, AC004991, AC004834, AC005527, AC006126, AB023048, AC006430, AC004263, AL050318, AC002375, AL132712, AC004865, AL109758, AC005952, AL049569, AC007227, AC004088, AC007312, AC004883, AC005778, AC016831, AC005004, AL050341, AC007386, AL022316, AC004453, AC004000, AF129756, AC007285, AC002091, AC006449, AC004760, AC009743, AC002300, AF053356, AL031284, AC005057, Z94044, AL031680, AC006040, AP000550, AC005206, AL035681, AC004963, AC004262, AP000215, AF196970, AC007541, AC007390, Z98752, AL031283, AC008018, AF217403, AL035079, AC006285, AC004253, AL031666, AC005737, U91322, AC004859, AC007676, AC003108, AC004638, AC007845, AF030453, AL022067, AC004858, AC005412, AC002378, AL035587, AC007664, AP000065, AC004841, AL078596, AC012330, AC004933, AC002395, Z84469, AC005067, AC002565, AC005379, AF196971, AC005088, AC009498, AL031589, AL080243, AC002074, AC007193, AL049760, Z85996, AL022153, AF207550, AC005529, AC008372, and Z97876.
HCUHH14	695	658452	1 - 197	15 - 211	AL695562.
HCUHH34	696	923803	1 - 503	15 - 517	
HCUHH54	697	720378	1 - 311	15 - 325	
HCUHHJ12	698	970782	1 - 205	15 - 219	AL031708.
HCUHHJ15	699	577304	1 - 418	15 - 432	AC003007, and AC005632.
HCUHHJ30	700	966583	1 - 568	15 - 582	
HCUHHJ58	701	575796	1 - 387	15 - 401	
HCUHHM44	702	615198	1 - 95	15 - 109	
HCUHHM61	703	576561	1 - 472	15 - 486	

HCUHM94	704	736095	1 - 250	15 - 264	AC002302.
HCUHO60	705	576563	1 - 258	15 - 272	AP000313, AP000193, AP000050, and AP000117.
HCUHP20	706	669737	1 - 384	15 - 398	AA122006, AA122007, A1733856, A1753365, A1254779, AW419262, AL039187, A1017251, AW274078, AA482711, AA584489, A1634187, A1862716, AW193493, AA527209, AA503019, AW117740, AW069227, AW271069, AA610509, AA410788, AW162049, N73060, AA579179, A1929531, AA634837, AA315361, AA574442, A1250552, AA742815, A1284543, A1457313, A1912401, A1040051, A1079901, H30475, AA483606, AL079734, A1254770, AA287570, A1251284, A1251034, A1251203, A1223626, A1249853, AA652868, AA570740, AA613627, H47736, T50676, AW029038, A1679413, A1380617, A1569086, A1004591, A1469599, AA856961, AA582554, AA228778, AW167154, A1821044, AA255853, AA904275, AL120343, AW067788, AA513846, A1079423, A1475611, AA904211, A1962050, AW068007, A1885572, A1908093, A1623805, AW302048, A1564209, A138426, A1365988, A1687206, A1653886, A1053978, A1884522, A1339850, A1570261, AA019973, A1270476, AA558366, AA568204, AA013168, A1276298, AA569706, AW406755, AW068008, A1358229, AW166815, AW004884, A1866580, A1732120, AW089950, AC000353, AF024534, AC007666, AC005086, U91321, AC005291, AC005678, AC002126, Z82203, Z95152, AC006211, AP000510, AC004895, AC005071, AB023048, AC004417, AC005412, AC005531, AC002070, AC004099, AL034351, AC005102, AL117340, AL035450, AC006312, U63721, AC006511, AC007193, AC005411, I34294, AC006314, AC007199, AC005484, AL109627, AB003151, AL031680, AC004797, AF109907, AF111168, AC007395, Z84480, AC009247, AC007686, AL139054, AC005777, U82828, AL023803, AC005837, AF196969, AC006084, AC005800, AC005225, M87914, AP000556, AP000557, AC005722, AC004253, AC005971, AC005274, AF085946, AC006088, AL049830, AL035658, Z97054, Z85986, AP000289, Z84466, A39972, AC005520, AP000042, AP000110, AC005736, AC004999, AC002312, AC005089, AL031281, AC005237, AL031282, AL109865, AP000688, AL034418, AL049749, AC003047, AC005081, AL121603, Z98946, Z84487, AP000501, AL121652, AL021546, AC004477, AC004491, AC004953, U95739, AL049843, AC004890, AC002519, AF015160, AC000087, AL096791, AL033392, AC003111, AL035458, AF134726, AL035587, AC004517, AC004973, S75201, AC006947, AC007225, AC005015, AF045555, AC006538, AC004686, AL021391, AL049874, AL022165, AC002310, L78810, AC005220, AF196779, AC007551, AC005075, AC004263, AL035682, AP000694, Z98048, Z94801, AC012627, AC006597, AL035415, AC005859, AC005696, AB001523, AC004812, AC005300, AC004985, AC004841, AJ003147, AD000813, AC007065, AP000037, AC002997, AC004804, Z85987, AP001053, AC006581, AC007785, AP000211, AP000133, AC005037, AC005829, AC006121, AC016831, AC007845, AC006006, AC002563, AP000113, AP000045, AC003950, AL031685, AC004168, AL034420, AL049776, AC008545, AF165926, AC004884, AC005057, AF092858, Z77249, AC007226, AC004882, AC005529, AL133448, U96629, AC002565, Z98304, AC003043, AC004000, AC004234, Z83845, AP000088, AC005363,

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HCUHQ13	707	575803	1 - 352	15 - 366	AA460896, W72144, AA210943, N27422, AA496897, AL035413, and AL035249.
HCUHQ33	708	575800	1 - 341	15 - 355	AI281622, T95073, H52431, AC006077, AC005412, AC005911, AL033392, AC005736, AL031291, AC005529, AL109963, AC005049, AC005071, AC005089, AC005899, AC006111, AC005520, AC004491, AL133245, U91326, AC005015, U91323, AL023807, AC006261, AC006487, AC005295, AC008372, AC009247, AC005874, AF134471, Z93244, Z93930, AC003108, AC004938, AC002404, AC004882, AC005081, AC006312, AC003070, AP000514, AL096701, AC005255, AL049776, AP000692, AL020997, AF165926, AC005544, AC005332, AC007537, U95742, AC005399, AL096678, AL049795, AL022318, AC007205, AF196971, AC005225, AF124523, AC004814, AC006449, AC007263, AC009516, AC005088, AL109827, AC004139, AC004098, AC002429, AL049869, AC005722, AC002544, AC005527, AC006538, AC004922, AF118808, AL031311, AL035422, AL022323, L78810, AC007055, AP000952, AC007993, AL109627, AC005280, AC005881, AP000045, AP000113, AC005921, AL135744, AP000556, AP000502, AC004876, AC003109, AC005932, Z99716, AD000092, AC007226, AL031447, AC005480, AF111168, AC005694, AC007216, AC004893, AC002565, AL139054, AL031587, AP000512, AC002310, AC004596, U85195, AF134726, AP000557, L47334, AC005207, AC000353, AC007193, AC002550, and T97461.
HCUHQ74	710	765638	1 - 341	15 - 355	AW020154, AW245057, AW023511, AA365318, AI648433, W63553, AA643451, AA659200, N62666, AA559166, AA171892, AI086039, AA584756, AW029444, AA633039, H43183, AI049504, AA643441, AI628245, AA330380, AI890753, AI635819, AA230155, AW130427, AI733748, AA278496, AI732430, AI049986, AI126763, AI126811, R63003, AL134330, AA993198, AI753365, AI922850, AC005701, AC005777, AC004242, AL031668, AP000113, AC003982, AL022336, AC006480, AL022324, Z83843, AC007057, AL022302, AC004386, AC007308, AC005932, Z97183, AC004382, AP000512, AF037438, AC005295, U91326, AL008639, AC002470, AL121825, AL049759, AC007192, AB023051, Z82194, AL049569, AC016027, AL020993, AP001046, AC006165, AL031276, AC005756, AC016830, Z97054, AP000354, AL022329, AC006441, U18671, AC007136, U37761, AC005874, AF134471, L34079, AF129756, AC005488, AL109801, AC006487, AC005081, Z99716, AE000660, AC006077, AC004467, AP000303, Z98941, AP000349, AC005412, AL031311, AC005529, AC002477,

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HCUHS19	711	566809	1 - 280	15 - 294	R44293, R40978, H24231, AI678013, T65857, F01849, AW177822, AW177816, AC006537, AC000353, AC006512, and U73166.
HCUHS60	712	850009	1 - 272	15 - 286	
HCUHT21	713	577265	1 - 122	15 - 136	AI207507.
HCUHT56	714	722649	1 - 447	15 - 461	AA459655, AC006125, AF196779, AC002425, AC005529, AP000511, AC005778, U96629, AL049576, AC005924, AC007688, AC009294, AL022726, AC005726, AC006538, AC004084, AL008730, AL021155, Z98036, U93305, AC004685, and Z99716.
HCUHU68	715	577795	1 - 212	15 - 226	Z98883.
HCUHW54	716	730716	1 - 100	15 - 114	
HCUHW59	717	739329	1 - 164	15 - 178	AW275339, and AI879909.
HCUHY49	718	577887	1 - 288	15 - 302	
HCUJA48	719	721719	1 - 470	15 - 484	
HCUJ35	720	713818	1 - 490	15 - 504	U91320.
HCUJL80	721	577172	1 - 100	15 - 114	AC005200.
HCUJM51	722	725724	1 - 441	15 - 455	AI821342, T65972, T62955, AL039515, AI820553, AW272389, AA135761, AI969090, AA197089, AI581006, AA955031, AA558488, AI889177, AA340581, AI250333, AI310787, AI310670, AI349130, AI857834, AI174827, AA525156, AA525331, AA507623, AW366198, AW008217, AI150934, AI590442, AA493546, AA809104, AI821945, AI733856, AW192518, N35135, AA598605, AI090377, AW069227, AI049504, AA714389, AI309943, AI754037, AC004893, AC004859, AC003689, AL109798, AC005484, AL096791, Z85986, AC005725, AC006539, AC005529, AC005913, AP000501, AC006241, AC005225, AL022322, AC005828,

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HCUIN18	723	666537	1 - 273	15 - 287	
HCUO82	724	883812	1 - 323	15 - 337	
HCVAC18	725	889480	1 - 219	15 - 233	
HCWAA20	726	669991	1 - 108	15 - 122	
HCWAB01	727	921689	1 - 320	15 - 334	AW070506.
HCWAB44	728	669714	1 - 313	15 - 327	AA584207, AL031680, AC007688, AP000692, AC004910, AC005088, AC004491, AB003151, AC005071, AC005015, AL022326, AC005409, AC005081, AL020995, AP000688, AC006468, AC005768, AC009247, AL109839, AC012384, AF053356, AC005179, AP000167, AP000052, and AL031848.
HCWAB50	729	724684	1 - 139	15 - 153	

HCWAB56	730	507283	1 - 311	15 - 325	
HCWAB67	731	529658	1 - 112	15 - 126	
HCWAB80	732	959937	1 - 415	15 - 429	AA654766, AC005874, AF134471, AC005211, AC008044, AF030876, U52112, Z97054, and AF031078.
HCWAB92	733	523447	1 - 238	15 - 252	
HCWAC68	734	529653	1 - 321	15 - 335	
HCWAE16	735	660280	1 - 156	15 - 170	
HCWAE50	736	655130	1 - 211	15 - 225	
HCWAF02	737	920993	1 - 711	15 - 725	
HCWAF45	738	723452	1 - 322	15 - 336	AI271873, AA834816, AI053939, AW382603, AW021847, H72269, AA079260, R81017, R62710, T58562, AI003068, AA507623, AA525818, AA533660, AA515048, AI826857, AC003957, Z93023, AC005837, AC007182, AC005245, AC005933, AC004771, AC005914, AC005695, AC005102, AC003685, AP000497, AC004031, AC004132, AC003678, AL008582, AL109952, L78833, AL021546, AC005014, AL049776, AP000694, AL096701, AP000279, AL008722, AP000038, AP000106, AL078644, AC006484, AC007542, AC005899, AC003003, AC006581, AC007066, AC004890, AL096678, AF196779, AC006417, AC007192, AP000502, AL050333, AC007057, AL049872, AC005399, AL035249, AL021878, AP000116, AP000103, Z97056, AC003041, and AC002476.
HCWAF60	739	523354	1 - 301	15 - 315	R91062.
HCWAF80	740	529498	1 - 286	15 - 300	F02374.
HCWAG20	741	839796	1 - 299	15 - 313	
HCWAG70	742	529357	1 - 352	15 - 366	
HCWAH52	743	574929	1 - 235	15 - 249	AA812265.
HCWAI93	744	523536	1 - 330	15 - 344	AW134548, AA649218, AF022655, and AF049105.
HCWAJ55	745	529361	1 - 68	15 - 82	
HCWAJ58	746	740987	1 - 351	15 - 365	M77919, and AL109984.
HCWAK51	747	751640	1 - 297	15 - 311	AA837325, AI679390, AI679898, AA808982, AA971196, AA112924, AA856815, AA207147, AW408063, AI298079, Z97630, AC005921, AC006597, AP000030, AC004882, AC002477, AC005529, AP000163, AL121658, AL031602, AC004531, AC005071, AC004856, AC009516, S42653, AF109907, AB026898, AC004638, AC006449, AC005899, AC004831, AC007546, AL049697, U95742, Z86090, U52112, AL031005, AL031767, AP000501, AC007066, Z98946, AC005089, AC002527, AL034420, AC005846, AC005231, AC007216, Z81369, AC006581, AB023054, AC005696, Z84469, AC005768, U95741, AL033397, AL109628, AL109865, AC004770, AL079295, AL133238, AC005488, AC008124, AC006509, Z97876, AL031733, AC005971, AC008372, AC007055, AC005663, AC006445, AC004491, AC004019, U95740, AC007041, AC005695, AC004526, AC004851, AL022238, AC004801, AJ246003, AL022327,

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HCWAK80	748	702435	1 - 470	15 - 484	
HCWAL14	749	861958	1 - 332	15 - 346	
HCWAL22	750	579046	1 - 468	15 - 482	AC005327.
HCWAL39	751	861893	1 - 330	15 - 344	
HCWAM08	752	960170	1 - 95	15 - 109	
HCWAM39	753	529349	1 - 170	15 - 184	U95742, AC007216, and AC007226.
HCWAM49	754	849980	1 - 495	15 - 509	
HCWANI7	755	966646	1 - 684	15 - 698	AA630456, H38769, A1581223, A1003797, AL037777, H65697, AW161459, AW161879, A1191343, AA936548, A1473671, T90477, AA743968, AA299422, AA361354, A1570380, A1733856, AL047645, T94072, AA715891, A1287766, AA292719, H24953, A1054414, AW007424, AA501781, AA526424, AA577824, AA456149, A1684335, AA811150, AA654849, AA669320, AA493657, AA380781, A1866580, AA640495, A1049630, N87333, F31203, H47208, AA064978, AA678976, AA745628, A1357109, AW084100, A1308598, AW029515, A1683116, AA133013, AA714338, AA584525, A1473995, H94979, A1247101, AW022796, AF092853, AF092850, AC006160, AC005412, AC004929, AC005872, AL008636, AP000353, Z75407, AF092851, AF195658, AC002040, AC006262, Z98200, AL023513, X58139, Z54246, AC006480, AF191069, AF007563, AL121754, AC005620, AL096766, AC006530, AP000144, AC004773, AP001067, U85195, AC004990, AL031005, AC005480, AE000658, AP000313, AL034418, AC004475, AC005829, AP000194, AC006323, AL096701, AP000555, AL049569, Z84469, AL049780, AP000116, AP000050, AF196969, Z99297, AC006449, AC006050, AP000229, AP000151, AP000043, AP000117, AC005696, AC006021, AP000049, AC004851, AL034553, AC002316, AL022158, AL109952, AC005197, AP000311, AC002390, AL008718, AC007191, AL030996, AF132033, AP001068, AC003048, AC005233, AL034548, AL049779, AL035079, AC004651, AC003663, AF130343, AC002504, Z93024, AL031597, AL122023, AL121748, AL023799, AC000066, AC005231, AL035691, AL117258, A1251973, L22968, AC005544, AC004760, U52112, AL024498, Z98304, AP000010, Z85999, AL109967, AC005803, AC006251, AC004262, AB014088, AB033024, AC005037, AC002314, AC007488, D89927, AF106656, AC005178, U63630, AC005192, AL022326, AB000876, L34079, AP000506, AC002045, AB000882, AB020868, AC006241, AC003670, Z98747, AF143316, AC007204, U96629, AC007263, AJ011930, AL121577, AL021939, AC005280, AC007193, AP000115, AC002375, U52111, AL049835, AC006538, AC004492, AC005820, AC004923, U02047, AC003992.

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HCWAN55	756	928116	1 - 375	15 - 389	
HCWAP63	757	523259	1 - 409	15 - 423	AL022067.
HCWAP66	758	889439	1 - 303	15 - 317	AL1216990, AL076729, AC007381, and AF109907.
HCWAR05	759	932623	1 - 397	15 - 411	
HCWAR59	760	916461	1 - 687	15 - 701	
HCWAR63	761	523255	1 - 392	15 - 406	
HCWAR76	762	529652	1 - 488	15 - 502	
HCWAR84	763	529241	1 - 199	15 - 213	AC005820.
HCWAT16	764	523125	1 - 326	15 - 340	
HCWAT59	765	529236	1 - 339	15 - 353	
HCWAL26	766	849902	1 - 263	15 - 277	
HCWAL89	767	589836	1 - 333	15 - 347	
HCWAV75	768	849976	1 - 396	15 - 410	
HCWAY41	769	542388	1 - 336	15 - 350	
HCWAZ16	770	529227	1 - 328	15 - 342	
HCWAZ43	771	849892	1 - 496	15 - 510	
HCWAZ66	772	523243	1 - 434	15 - 448	
HCWAZ73	773	523299	1 - 284	15 - 298	AL720968.
HCWAZ91	774	529226	1 - 443	15 - 457	
HCWBA18	775	529224	1 - 179	15 - 193	
HCWBA21	776	937631	1 - 394	15 - 408	T59362, and T59390.
HCWBA49	777	723359	1 - 327	15 - 341	AL695904, AL652833, and AC005576.
HCWBA50	778	835532	1 - 326	15 - 340	
HCWBA55	779	529222	1 - 296	15 - 310	
HCWBA64	780	715579	1 - 265	15 - 279	
HCWBB27	781	967045	1 - 392	15 - 406	AL709174, AL932902, AL078084, AW194802, H54292, AA085863, AL889612, AL623423, AW236342, AL268812, AA563770, AA573189, AA252763, AL824562, AA526779, AA669816.

HCWBB63	782	667283	1 - 332	15 - 346	AA846935, AW190760, AA917683, AI282336, AI889440, AL042756, AI537030, AA176605, AI291124, AI312149, AA515224, AA179706, AI291268, AW270258, AA604514, AW008212, AP000689, AC005808, AC005969, AL023553, AC012627, AL023575, AL033376, AC006312, AL109654, Z84721, AC007066, AC006360, AC005304, AC002400, AC005480, AL078581, AL031985, AC005004, AC005682, AC005317, AC002312, Z84487, AC007537, AC005206, AC005358, AL136295, AF053356, AC004087, AC002316, AC002558, AC002319, AC006241, AC003663, AC005011, AC005667, AC002310, AL049745, Z93930, AC007055, AC006040, AC005412, AC005015, AC005399, AC005519, AL021939, AC007934, AC006211, AL031848, AF003626, U91326, AC012384, AL096763, AL117354, AC002302, AF207550, AC004263, AC005041, AC003982, AC007151, AL031666, AC002072, AL031662, AC000052, AL008582, AL049759, AL121655, AC005324, AC004966, AL121603, AP000359, AC007263, AC007666, Z83826, AL035422, AC002350, AC006449, AC007536, AF111167, AC002544, AL031670, AC005081, AP000344, AC005516, AC003664, AC005756, AL008723, Z97630, AC007216, AC004076, AL022320, AP000552, AC006953, AC006160, AL009181, AP000350, AC005379, AP000355, AC007707, AC002984, AC004254, AC006430, AJ246003, AL022336, U85195, AC005069, AL049869, U07563, AL133448, AL031587, AC005632, AC006450, AC007371, AC007050, AC005102, AL031584, AC004821, AL022312, AC005696, AL020996, U95740, AC005899, AC005562, AL022318, AC005874, AF134471, AC005681, AL021578, AC004972, AE000658, Z99716, AC004983, AC004752, AL022326, AC004019, AC002425, AL109627, AC009516, AF109907, AL021394, AC006571, AC007363, AL033521, AD000813, AC004540, L77570, AC004929, AC004000, AC005291, AC004383, AP001038, AC004963, AC004253, AC002565, AC004106, Z98051, AC006088, AC005844, Z94056, AC005104, AF001549, AL049776, Z93023, AL035405, AL031589, AF064861, Z83840, AL050321, AL080243, AC005747, Z84480, AC002430, AC005839, AL008635, AC004771, AL031281, AC004894, AB023049, U80017, AL031393, AL049712, AL121934, AC006539, AC018633, AC005878, AC004841, AC003950, AL109628, AP000512, AF111168, AC004560, AL121825, and AC007227.
HCWBC16	783	529350	1 - 208	15 - 222	
HCWBC28	784	584778	1 - 341	15 - 355	
HCWBC32	785	574909	1 - 361	15 - 375	
HCWBC54	786	573188	1 - 331	15 - 345	AF187320.
HCWBC61	787	728666	1 - 313	15 - 327	R91175, AA347930, AA347927, AI431688, AA078849, AI690686, AA328169, R70333, AW238345, AA078869, F23239, AA364224, AA177120, F04987, R40056, AA843450, AI160117, AW088984, D29495, AA449523, H79261, AI561255, AA310868, AW272758, AI185122, N31557, R36315, AI679442, AI679952, AA449088, T59509, AA704643, H78230, R77905, R96959, AW102849, AA347101, AA985357, AA581463, AA810283, AA338486, AI610376, F33566,

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HCWBC69	788	849971	1 - 290	15 - 304	
HCWBC71	789	784052	1 - 69	15 - 83	
HCWBC81	790	849974	1 - 248	15 - 262	
HCWBD54	791	706513	1 - 238	15 - 252	
HCWBE25	792	529216	1 - 127	15 - 141	
HCWBE37	793	542403	1 - 307	15 - 321	
HCWBE49	794	932196	1 - 406	15 - 420	
HCWBE51	795	782317	1 - 418	15 - 432	
HCWBE58	796	773587	1 - 161	15 - 175	
HCWBE69	797	723717	1 - 435	15 - 449	
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HCWBE71	798	688011	1 - 393	15 - 407		AC006465.
HCWBE76	799	968515	1 - 158	15 - 172		AW450440, AW444820, and AW301590.
HCWBG06	800	954670	1 - 60	15 - 74		AI440268, AA523203, AA523204, AI114755, AI160875, AA506952, AW019964, AW265274, AA368329, AI609972, AI753536, AI635677, AI690335, AA807704, AL047480, H40478.
HCWBG30	801	920530	1 - 289	15 - 303		AW237905, AA551204, AA837771, AW029626, AI749306, AI888050, AL048002, AA351868, AI982494, AW341955, AI114645, AW263867, AL041895, AI453160, AI564294, AA831997, AA632765, AI471467, H87756, AA629939, AI348780, H43183, AJ799421, N45056, AL042373, AW169469, AA320521, AA653291, AI378437, AL118998, AI750692, AA635433, AA683069, AA604797, AI800345, AA642289, AA207147, AI345394, AW023376, AA788904, W27084, N22501, AI671077, AI929298, AI929825, H15241, AA670108, AA741301, AW007424, AA225100, AW157180, AA827383, AI537480, W96522, AI915068, AI114543, AW197926, AC004686, AC004242, AL031662, AC006312, AC005355, AC005189, AC005081, AL021917, AC005338, AC005736, AB023051, AP000512, Z83826, AP000501, AC007510, Z84481, AC007363, Z83838, AC007488, AC007225, AL079295, AI139054, U96629, AP000125, AC006549, AC005821, Z93023, AL031286, AI117694, Z82244, L13176, L77570, AF024534, AP000252, AP000098, AF064866, AC005969, AC005899, AC007285, AC005212, AP000515, AL133289, Z97832, AP000212, AP000134, AC002395, AC005772, AC005231, AC005183, AC007151, AC012384, AC002302, AC005911, AP000031, AF031078, AL136297, AC005940, AP000558, AC004253, AF029308, Z98036, AC005086, Z85996, AC004596, AF030876, Z98941, AC007688, AC005952, AL117391, AC005778, AC002347, AI246003, AC006070, AC005412, Z79997, AP001053, AL035405, AL035587, AC005972, AC004030, AC007387, Z97352, AL022336, AC004913, Z97053, AL078611, AC005902, AL049872, AC004531, AC004973, AC004813, AC005670, AL109984, U29953, Z97184, AL031284, AC002563, AP000014, AP000692, AF113694, AL117344, AC005839, L78810, Z98743, AC004779, AL031686, U55184, AL109628, AP000172, U62631, AF050154, AC012085, AP000057, AP000355, AC007617, AC007226, AL031311, AC006211, AL049692, AL008718, AC002400, AC005271, AP000502, AC005529, AC005358, AC002527, Z81369, Z95115, AC007025, AC005632, AC002425, AF111167, AC002350, AC006120, AL031985, Z98256, U91318, AL049631, AC000094, Z84484, AL022318, Z99716, AF053356, U43572, AC004912, AC007455, AC006111, AL121652, AL035681, AC000097, AL034451, AP000553, AL049845, AL009172, AC005181, AC006547, AC005218, AL035398, AC004611, AC005565, AL021391, AL022238, AC020663, AL035685, Z84483, AC004999, AC004967, AC002984, AF129756, AC003070, AL031123, AB014085, AC004187, AL031282, AC006571, AC003972, Z83844, AL050348, AL121603, AC007041,

HCWBG40	802	676588	1 - 540	15 - 554	AC002565, Y18000, AL009175, AC005049, AL031432, AL031003, AC009516, AL031276, AL096761, AC005695, AC004662, AD000092, AL049588, AC002045, AC002082, AL035610, AL023803, U80017, AC007731, AC007358, AL096775, AL096774, AC000118, Z98304, AC005031, AL109623, AL050341, AC005500, Z99943, AC004876, M84472, AL021546, AL133245, AC004834, AF106656, AL031846, AC004149, AL022719, AC003957, AL034553, and AP000331.
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HCWBG41	803	839014	1 - 283	15 - 297	
HCWBG43	804	689743	1 - 197	15 - 211	W60516, T39598, A1284640, AA557325, A1358229, AA916039, AW406755, AA513999, A1110770, AA826303, AW074398, A1205126, AA551509, AW274349, A1625244, AW023672, AW265385, AA483034, AW303196, AW301350, AA720702, F35113, F36273, A1133164,

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HCWBG77	805	529229	1 - 279	15 - 293	
HCWBG91	806	789318	1 - 118	15 - 132	AA528467, A1865264, and A1267855.
HCWB117	807	954153	1 - 171	15 - 185	AC002316.
HCWB124	808	529211	1 - 112	15 - 126	
HCWB137	809	967717	1 - 335	15 - 349	
HCWB153	810	934909	1 - 375	15 - 389	
HCWB177	811	529238	1 - 217	15 - 231	
HCWB190	812	921653	1 - 342	15 - 356	
HCWB192	813	917300	1 - 408	15 - 422	
HCWB127	814	784524	1 - 128	15 - 142	
HCWB161	815	849967	1 - 320	15 - 334	
HCWB166	816	529228	1 - 87	15 - 101	AL022328.
HCWB175	817	935579	1 - 470	15 - 484	<p> A1809175, T53160, TS3159, AA284460, AA995373, A1355246, A1634377, A1926393, AW089625, AA846923, AW008184, AA226356, A1283938, A1366180, AW272815, R67701, A1357762, A1434653, AA856815, W45274, N66775, AA084504, F35684, A1690379, AW104161, A1697239, AA526643, A1697242, AA558366, A1697235, AA535216, AA484022, AA555232, AA714110, A1473671, AW192419, A1869797, A1961983, AA584756, A1417469, A1859906, AA568314, A1753904, A1568376, AW419389, AA728874, A1927275, AA838161, A1932871, AL041375, A1800426, A1281818, A1431513, AA655037, AA181917, A1817658, AA558404, AA613850, A1678581, A1370170, AW020150, A1521525, A1689198, AA654464, A1537368, A1858889, AA582746, A1053398, AA491423, AW303872, H71678, A1687972, AA297961, AW249660, AA290570, A1299442, AA610433, A1538236, AW265688, AA581240, F09357, AA601712, A1270647, W72860, A1888298, A1491765, AA642809, AW028950, AA515048, AW238341, AA115865, F30158, AW019964, T47138, A1926102, AA488687, A1612724, A1476460, AA523695, AA814503, AC005274, AC008072, AC002316, AC003663, AC004139, AC004884, AC012384, AC005288, AL022165, AC005291, AC005082, AC002554, AL008718, AL022162, AP000466, AC002504, AL035587, AC002430, AL035460, AL049776, AC007298, AC005914, Z82203, AC007384, AC005369, AC002404, AL135960, AJ131016, AC003687, AC003046, AC007536, AC002302, AL109827, AC005046, AP000156, AC004448, AP000501, AC007055, AC002378, AC004242, Z93023, AL049539, AC006312, AP000555, AC008040, AL133312, AL109653, AC005393, Z98304, AC005280, AL049780, AL13448, AP000033, AC004263, AC006011, AL049872, AL031055, AL022163, AC006441, U78027, AL133245, Y18000, AL109984, Z84474, AL022398, AL031777, AL035422, AC005624, AL022319, AC004882, AL035405, Z93241, AL031005, AC002477, L43411, AL031293, AL031121, AF178030, AC005058, AC004841, Z98048, Y10196, AL109618, AC004801, AF222686, AJ246003, AC006581, AC007151, AP000014, AC004686, AC005920, AL133275, AL049576, AC003108, AL132718, AC004706, AL022318, AC005529, AL133500, AC005952, Z98044, AC004887. </p>

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HCWB181	818	849977	1 - 165		15 - 179
HCWB186	819	719521	1 - 380		15 - 394
HCWB138	820	935481	1 - 336		15 - 350
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HCWBL41	821	666457	1 - 372	15 - 386	R20206, T82390, T48770, AL039515, W07542, AA757646, N54937, H82873, AA847341, AA525156, AI791408, AI791720, AI049999, U91323, AC007546, AC005354, Z98946, AC004983, Z84474, AC006344, AB001523, AL031311, AC006354, AP001054, U70065, AC005696, AC002492, AC004771, AC003006, Z84480, AC006064, AL035086, AP001052, AC004914, AC007421, AF053356, AC004825, AL031577, AC005089, AL031587, AF007876, AC006512, U91327, Z61071, AC005529, AC005839, AC004797, AC002077, U78027, Z85987, AF165926, AC005288, AC004383, AC006332, AP000133, AP000211, Z86090, AF196972, AC004692, AC004674, AL049776, AL035422, AL049795, AC004883, AL008731, Z97987, AC004967, AC005746, AF023268, AC005372, U45945, M81181, AC004638, Z82190, AC005527, and AL133448.
HCWBM04	822	861842	1 - 329	15 - 343	AC002464, Z85999, AF002223, AP000033, AC004253, AP000102, AF000260, and Z97196.
HCWBM50	823	577712	1 - 347	15 - 361	
HCWBM95	824	849932	1 - 386	15 - 400	
HCWBN06	825	924638	1 - 360	15 - 374	
HCWBO10	826	842038	1 - 331	15 - 345	
HCWBO23	827	964590	1 - 165	15 - 179	AC007130.
HCWBO94	828	574861	1 - 361	15 - 375	AC007162, and AC005212.
HCWBP27	829	684336	1 - 317	15 - 331	AF205588, and AL024498.
HCWBP56	830	733662	1 - 303	15 - 317	AW022796, AA847341, AW023390, AI308529, AI554399, AW029626, AI888050, AL119063, AI307563, AI520925, AI475294, AA358531, AA496941, AA935827, AA687084, AI076729, AA419014, AI002863, AI446574, AI867012, AI571894, AA661554, AI798521, AI571094, AW070901, AI860648, AA084320, AA525156, AA768179, AW129188, AA632355, AI752977, AA218684, AA581317, AI049680, AA446931, AA196994, AI805609, AA834891, AI805373, H05066, AA761454, AA171400, H24331, T52366, AW338376, AI805556, AI890297, AA419107, AW131109, AW190437, AI734076, AI732102, AI732101, H23238, AI734075, AA828840, AA551548, AI445338, AI572680, AA749196, AI124558, T07943, AA772818, AI802268, AA873661, AA484191, AA524846, N55076, AA832108, AI003086, N59248, AA436949, AI343808, AI149177, W27084, AI570067, R79396, AA496042, AI363336, AA428991, AI000314, AI361401, AI174827, AI202777, AI114645, AA385652, AW362702, AI207534, AI668566, AI921744, AA513916, AA420703, AA225566, AA225494, AI446618, AA632556, AI434103.

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HCW/BP70	831	757467	1 - 370	15 - 384	AC004934, AC005668, AC007529, AC003102, AP000142, AP000089, AC005200, AL133243, AL031117, D87675, L35671, AF135187, AC005612, AC004140, AC004966, and AL050307.

HCWB74	832	765881	1 - 319	15 - 333	R5942, AC002301, AP000045, AP000113, AC005399, AC007327, AP000510, Z84469, AC004520, AL13163, AL035079, AC006163, AC004032, AB023048, AL031311, AC003030, AC005081, AC006461, AC004938, AC005015, AC003010, and L44140.
HCWB85	833	849969	1 - 365	15 - 379	AA564671, AC002045, AC002039, AC002544, and U91326.
HCWBQ03	834	920886	1 - 330	15 - 344	
HCWBQ36	835	557873	1 - 324	15 - 338	
HCWBQ70	836	706526	1 - 373	15 - 387	
HCWBQ74	837	526537	1 - 356	15 - 370	AW242031, AW340905, AL039309, AL446336, AJ018923, R33091, AA224525, H40324, AA012829, AL042310, AW029251, N30205, AA689351, H56703, AW440368, N41775, AA825185, AL679221, AA827096, AA609826, AL307565, AL271762, AC004814, AL049653, U91326, AC004777, AF047825, AC005231, AC006236, L78810, AC004000, AC007435, AL049569, AC005332, Z85987, AC002996, Z84480, AL133245, AL022336, AC005899, AC005519, AP000501, Z98742, Z97630, AL022163, AC002312, AC005527, Z98941, AC004216, AC002470, AL022313, AC009516, AL080243, AC005031, AC004686, Z85986, AL020993, AP000116, AL031284, AC006057, AC004832, AL031666, AC005180, AP000512, Z97196, AC003101, AL136295, AC005520, AL033392, AC006480, Z98304, AC005015, AC005745, AC006344, AL022721, AC004890, AC002365, AL023575, AL109539, AC009946, AC004019, AL031680, AC003950, D86995, AF207550, AF045555, AC005844, AC006285, AC006530, AC005529, AC006468, AC020663, AC003108, AC005921, AL117344, AC005037, AC007225, AF053356, Z98743, AC005207, AL121652, AJ003147, AP000558, AC007216, AC005086, AD000092, AC004884, AP000117, AC004854, U96629, AC004841, AL021392, AP000050, AC006211, Z86090, U29953, AC005944, AC007666, Z84487, AC007308, AC005300, AC005828, AC005102, Z93241, AP000555, AC007421, AC008372, AC004752, AC007277, AF196969, AC005412, AC005399, AC005081, AL022316, AC008044, U62292, AL109657, AC004882, AC006111, AC002477, AF111168, AC005512, AC002301, L47234, AL132712, AC005071, AF196971, AL035086, AC004491, AC005702, AC002544, AL096701, AC006538, AC007993, AC005305, AC004659, AC005695, AC006965, AC004492, AC005619, Z97183, AF205588, AC000134, AC007283, AL049843, U52112, AC004447, U91321, AC007546, AL109963, AL139054, AL117330, AF003626, AL021154, AL035659, AC005747, AC005225, AC005924, AL022165, AL049759, AC004859, AC005409, AL122020, AC004985, AC003982, AP000556, Z95114, AL035587, AC002375, AC005274, AC005089, AC005725, AL049694, AC007687, AC004099, AC005058, AP000690, Z83844, Z99755, AP000689, AF015416, U91322, Z99128, AC003041, AC002316, AC004878, AL021391, AC006257, AC003098, AL049780, AC005082, AL022311, AC006487, AL096791, AL009181, AC007226, AF165926, AC005914, AC003009, AL050308, AC002072, AP000952, AL024474, AC005778, AL246003, AC002314, AC004638, AL034417, AC007774, AL031007, AL121658, AC005046, AL133371, AC005971, AC003042, AL050318, AC004887, AL021878, AP000300, U34879, AC004552, Z98752, AC007055,

HCWBQ88	838	527694	1 - 310	15 - 324	AC004167, and AF196779.
HCWBR06	839	527692	1 - 424	15 - 438	AA234213, AL078621, and Y13478.
HCWBR89	840	967726	1 - 401	15 - 415	
HCWBS66	841	574850	1 - 120	15 - 134	AA912663.
HCWBS67	842	842037	1 - 370	15 - 384	<p> AT281474, AI187148, AI050076, D44899, AA446645, AI609972, AA653139, AA584765, AI624067, AA342238, AA526643, AA598738, AA805029, F24745, AA456149, AA568314, AA193205, AI090334, H28545, AI358542, AA302661, AA648605, AA570441, AA482928, T71936, AW083706, AA225630, AA808998, AA383937, AI494417, AW419389, AA847099, AL119010, AA112924, AA020788, F30650, AI281938, AA443727, AA425924, AI354333, AL134278, AW167330, AW051288, AI366555, H25302, H67064, AI620415, AI858889, AA525407, AI636734, N73060, AA664126, AJ955873, X69907, AC004893, AP000501, AP000103, AC004106, AL031281, AL035405, AC005089, AL049694, Z99128, Z97056, AP000269, AP000555, AC007435, AC004217, AC008126, AC003041, AC006965, AL035658, AF049895, AF111168, Z82244, AL049830, AF002223, AI031905, S42653, AI035458, AC004985, AL031432, AC007993, AC004526, AL033527, AL022336, AC004843, AI035079, AC004805, AC005755, AL034549, AL139165, AC002565, AF047825, AC005261, AF196969, AC007685, Z95152, AC006966, AL031685, AL079295, Z83309, AL009172, AL031589, AC005913, AC005535, AL031673, AL049872, AL033518, AC005874, AF134471, AC005479, L78810, AC005828, AL078638, AC005924, AC005372, AB023048, AC004859, AC006026, AF207550, AC005901, AE000658, AC004491, AC002477, AC005632, AC007308, Z93017, AL049591, AP000300, AC006121, AL008718, AF134726, AC005933, AL096701, Z81369, AL096766, AP000032, AP000113, AP000045, AC003956, AC007225, Z99716, Z82190, AC005921, L05367, AC007358, AC002073, AL031777, AC006001, AL035659, AC007298, AC008064, AC004148, AL031657, AC002470, AC006023, AC009516, AC004973, AC007216, AL133246, AC005231, AL049569, AL050348, AC005881, AC002994, AC004584, AL031120, AC006487, AC005531, AC007386, AC002314, AC006449, AC005520, AP000040, AC003982, AL022238, Z94056, AC002425, AC005233, AC002045, AL031291, U95743, AC005409, AC004522, AC005082, AC004531, AC004841, AC004821, AC004884, AL031289, D87675, AL008730, AP000355, AC007192, AC005328, AL035530, U85195, AC006344, AC006146, AC006239, AC005914, AL034371, AC020663, AL109801, AC007276, AC006088, AC005740, AC006050, AL080243, AC003071, AL022316, AC005971, AC000353, AC000070, Z94801, AC007327, AC004024, AC007237, AL035071, U91326, AC004983, AC005821, AC010205, AC005696, AC005014, AL131243, AC004223, AL022323, Z83838, AC000159, AL022322, AJ010770, AC006960, AL049776, AL049636, AC005730, AL109984, AL050307, AC006241, AC002350, AC006505, AC004762, AL121934, AC005220, AC002347, AL009181, AL049589, U91318, Z84469, AC006581, AC005015, AC006509, AC006299, AL024507, I34294, U95741, </p>

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HCWBS96	843	954028	1 - 464	15 - 478		
HCWBT30	844	523249	1 - 340	15 - 354		
HCWBT31	845	720016	1 - 283	15 - 297	AA897291.	
HCWBT48	846	527676	1 - 139	15 - 153		
HCWBT86	847	927506	1 - 316	15 - 330		
HCWBU09	848	527562	1 - 279	15 - 293		
HCWBU24	849	861864	1 - 371	15 - 385		
HCWBU49	850	850014	1 - 402	15 - 416		AL118817, AA425283, AL360368, N27737, A1224583, N62478, A1567976, A1446424, AA493464, A1753131, AA506544, AW085751, AW270287, AA659303, AA330435, AL119123, A1355572, AA595661, AL048969, A1690379, AA515165, AW169183, A1310670, A1754064, AW409621, A1349130, AA372958, A1038990, AA524604, AW086015, AA489390, A1042731, AA382435, AA662982, A1751698, AL134338, AA631915, A1744890, A1540319, A1044438, AA862218, AL039436, AA630476, A1935827, AA640305, AL042336, R43468, AL044458, AA648942, AA280886, A1014872, H05742, A1439525, AA181705, AW084152, A1174703, AA720594, N73337, AA369494, AA167178, AF114095, AW275788, AA303588, AD000092, AC002433, AC005081, AC004477, AL031228, AL021391, AL096791, AC005048, AC005516, AC005004, AF129756, Z97056, AP000359, AL035422, AF217403, AC005664, AC006479, Z82208, AL035420, AC005546, AC009336, AC006547, AL133448, Z82244, AC004686, U78027, AL022313, AC007057, AL049872, AC006581, AL021393, AP000505, AC007021, L78810, AC007242, AC002551, AL035413, AL035682, AL139054, AL121769, AC004099, AF195658, AC005301, AC003969, AC007055, AC007686, AL049709, AL035603, AC007093, AC000007, AL031122, AC005828, Z98048, AC002476, AC005726, AC007397, AC004000, AL136295, AC005519, AC002985, AC000075, AL049539, AC004772, AB014079, AL031587, AP000514, AC007535, U91318, L44140, AP000133, AP000211, U91325, AL078639, AC005670, AP000961, AC006530, AC002126, AC004159, AC004921, Z79488, AC003109, AC007436, AC005907, U47924, AP000140, AL078581, AC003042, AC005391, AL031281, AC005821, AC012330, Z93017, AC004805, AC004802, AP000280, Z15025, AC005808, U71148, U91327, AC004998, AL008718, AC004973, AL122020, U91326, Z84466, AF111168, AL022476, AL049780, AP000088, AF015416, AC006511, AL078471, AP000107, AP000039, AL133312, AL034395, Z84497, AC007546, AF030876, AC009946, AC005082, AL021308, Z93244, AC005261, AC007993, AL132799, AC010077, AL031774, AL031282, AC005751, AC005694, AF196779, L78833, AL024507, U73647, AC004929, AL096763, AC005215, AL050323, AL035494, AP000124, AP000056, AP000171, AC004522, AC005089, Y14768, AC003102, AC007785,

HCWBU72	851	668350	1 - 540	15 - 554	AL133382, AL031259, AL008710, AC003077, AL121657, AC005011, AL135744, AL035419, AL031680, AC005057, AC005911, AC005412, AF141308, AC005839, AC005793, AL117694, AC006468, AL021937, AC004903, AP000114, AP000046, AL022326, AC006139, AL008726, U80459, AL035460, AL133245, AL049776, AL034548, Z83847, U85195, AC005323, AL034379, AL023281, AC004213, Z86061, AL022723, AC004671, AF001550, AC005736, AC006255, AP000210, AP000132, AC000239, AC005335, AC007227, D88271, AC005369, AE000658, AL034417, AL031845, AP000228, D87022, and AL132987.
HCWBU72	852	746335	1 - 366	15 - 380	AL042853, AA503947, AA349854, F33121, AA366035, AA369477, AA318652, AA513999, AA508509, AA846981, AA341228, F19258, AA657458, F29989, W07032, AA559290, AA483034, AA724230, AL284583, AL358229, AA558697, N66067, AA310158, AA878495, AA363501, AA662974, AA515435, AL365988, AW406755, A1921188, AA371568, AA364193, AA723017, T66105, AW193546, AW339687, F36373, AA658235, AA557879, A1635272, F26152, AA780929, F36273, AA737154, AL120502, T07346, AA683037, AW270270, H58672, AA828680, T40077, AA828826, AA747620, AW008317, A1866908, R40625, A1457397, A1432713, AA580889, AL137954, A1357288, N41759, AL036854, AA092739, F24284, AA345333, H77900, AA932099, AA618002, C05986, AL079843, AL118911, C17838, A1745325, A1623898, A1246119, AA626747, A1431688, AA065087, R44592, AA301813, A1565245, AA662017, AW089789, AA313016, AL037554, A1439360, AA372106, AA654322, A1484849, A1284640, A1688928, AA159978, R13151, AA639270, T25706, AW193295, AW338086, AL041382, A1955323, T29180, A1624698, AA339187, A1792864, A1818620, Z97053, AP001053, AC007285, AL022717, AL021918, AL121934, AC005632, AL121658, AL031736, AC007536, AL109799, AL049757, AC005215, AL022318, AP000034, AP000101, AL008629, AL034548, AC005803, AL133312, AC004740, AP000301, AP000045, AP000113, AL035413, AC004010, AL078602, AF039906, AL117328, AF055066, Z82182, AL121603, Z75890, L78833, AP000141, AP000089, AC004884, AC004066, AP000264, AL035684, AC008115, AL023281, AC005180, AC007283, AC007312, AL021939, AB023049, AC004600, AC000353, AL020993, AC004890, AC004712, AC007773, X77531, D87675, AP000512, AC006049, AC004049, AC005015, AL109984, AP000692, S78429, L44140, AP000031, AC005856, AC002377, U47924, AC004496, AC006449, AC005722, AC004470, AL031664, AL022394, AC008109, AL023803, AC004259, AC007461, AP000230, D83737, AP000144, AL008636, Y10196, AC006965, AC008984, U82668, AL049776, AL109939, AP000555, U96409, AL031650, AF190465, M87918, AF109907, AC004941, AC005911, AP000431, AL035448, AC004797, AC002485, AC006312, AC005399, AF108083, U95740, Z98950, AP000352, AP000252, AP000350, AC002316, AL035410, AC007848, AL109628, AC007666, AC004019, AC005625, AC005324, AC005944, AC005081, AC005829, AC020663, AC005696, AL121915, AL035415, Z99756, AC000052, AC002996, AC006071, U75931, AC004466, AL049874, AC005225, AL035461, AC005251, AL049872, AC005332, AL110292,

HCWBV51	853	725889	1 - 315	15 - 329	<p>Z98742, AC006552, AC016026, AC006285, AC004087, AC000067, AC005355, AC005799, AC005486, AB023051, AL133448, Z84718, AF067844, AC005184, AC004542, AC004477, AC012085, AC005998, AC016025, Z82185, AC006088, AC005208, AF044083, AL049829, AC005204, AC007226, D16583, U66059, AC004913, AP000134, AP000212, AC004020, AL031591, AP000194, AL035464, AC007537, AL079305, AL008582, AL080243, AL033376, AC000085, AC002558, AP000048, AC005703, AC005071, AC005370, AC000120, AL031733, U18400, M37551, L47234, AL035455, AL021785, AP000088, AC006077, AL132992, AL031283, AC004834, AC005212, AC004933, AC004703, AC002349, Z82244, AP000351, Z86062, AP000556, AP000557, AC007563, AC004902, AC005231, AL049712, AP000553, AC006149, and AF111168.</p> <p>F00252, AL134669, AW328050, AF500151, M77984, AF500442, AA533653, AA094109, AA298531, AF832674, AA601376, AF821892, AA380324, AF355414, AA640519, HF53169, AW029299, AA655026, AA693484, AF053673, AA601908, H86105, AA621838, N23229, C14262, AL133668, AF1818067, AC006023, AC006312, AC005049, AL080243, AC012384, AL078638, AL049829, AL023575, AC005081, AC004854, AC005363, AL049539, AL034420, AC005740, AC006285, AL049759, AL133246, AC007546, AL135744, AC004841, Z83846, AC005914, Z93023, AL031670, AC010206, AC007686, AC005180, AL133163, AL024498, U07563, AL049553, AC005736, AC002565, AP000114, AP000046, U80017, AC005697, AC003982, AC005759, AC005822, AF165926, AF196779, AL049636, AC003663, Z82176, AC002395, AC006453, U95090, AC002394, AC006071, AC005730, AC005004, Z84469, AL031591, AC005703, AC003104, AF109907, AC004659, AC004125, AC005082, AC005328, L78833, AL031848, AC006241, AC007842, U91326, AC010205, AP000697, AC005231, AL022165, AC003101, AL034379, AF129756, AC004383, Z95113, AC002310, Z93241, AC002306, AC005015, AL008718, AC005005, AP000248, AC004655, AC005512, AC004966, AC005846, AC005971, AC007277, AC004148, AC005821, AF053356, AC002350, AC016027, AC004019, AC004999, AC005829, AC005399, Z95331, AL021391, AL031427, AP000032, AL096791, AC004821, Z82184, AC004656, AL021917, U47924, AB003151, AC004686, AC007312, AC005722, AC002091, AC005746, AC002558, AF111169, AC007055, AC009247, AL049591, D87675, AC002544, Z75887, AC008044, AL050321, AC004032, AF047825, AC005409, AL021578, AC007690, U95742, AC004477, AC004167, AC004859, AL049776, AC005632, Z98200, AC002425, AL109758, AC004765, AC004526, AC004967, AL022312, AC005531, AC002347, AC005696, AC007057, AC000082, AL031287, AC005592, AC004858, AP000010, AC006275, AC004883, AC006480, AC007052, AL080245, AC007731, AL035458, AL139054, AC016830, AC005332, AC005288, AC004253, AC004797, AC007666, AL008582, Z85986, Z93020, AJ246003, AP000553, AL080242, AC005500, AC005529, Z84476, AC004914, AC007225, AL031311, AP000555, AC005189, AC002316, AL022336, AC006130, AC005057, AP000089, AC002476, AC004813, AC005482, AC005338, AL023553, Z84480, AC005922,</p>
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HCWBV96	854	796584	I - 396	15 - 410	Z98304, AF024533, AL049779, AC006111, AC016831, AC005606, AC005207, AC004983, AC005701, AC007216, AL034548, AP000689, AP000355, AC004884, AL035249, AC007537, AL109798, AL035086, AP000143, AC005578, AL049692, AL033397, AC006026, AL049795, AL022322, AL096775, AC002550, AC005071, Z85987, and AL117354.
HCWBX63	855	527081	I - 117	15 - 131	AA554392, and AA372426.
HCWBX65	856	970694	I - 164	15 - 178	AW104748, AA280632, AA655004, R67365, W85752, AA557970, R95704, H05073, AA552726, T78484, AA806734, AA515051, AA461317, AA569743, R84309, AA604497, AA633266, AA774184, AA158328, R84303, R83929, H02135, W80462, AA160481, N40815, R69255, AA084337, AA130658, AA196796, R52163, AA720548, H80357, H73704, H86860, H02877, T94075, H64778, AA620464, H48636, W56203, R50087, AA483223, N71724, N57890, W16581, R92288, AA158301, AA171416, AA578251, AA858197, R66878, R84296, AA161083, R47822, R93576, W95939, A1191227, N87661, AA628602, AA721981, N20219, AA522942, AA810370, AA679009, AA602528, H80373, H80386, N53573, AA938225, AA190895, N70442, AA584751, AA159974, T49241, T71030, AA469021, AA601499, AA578017, AA020729, AA047296, AA669634, AA558616, AA112299, R32415, R41717, H79297, AA342914, AA644538, AA650271, R97634, AA527958, AA583394, AA634145, T53128, R91159, AA639248, R67504, T97558, AA521355, AA864983, AA126777, AA574110, H68999, H79151, AA773176, AA167643, AA664015, AA204718, AA721599, AA335972, R89511, AA224129, H11124, H49061, AA169194, W74484, T16056, AA459379, AA173071, AA824654, H08496, N25296, AA582911, AA873560, AA524838, AL133723, T92445, AA137017, F10924, AA663486, AA693484, AW402067, AA205915, H64805, AA226153, AA199616, AL035604, AC005900, AC000355, Z84718, AL035416, AP000351, AC004067, AC004804, AL033521, AJ006996, AL022165, Z97876, AC010072, AC003029, Z98304, AL096770, AP001170, AC006039, AC003024, Z92543, AC007406, AP001068, AC004531, Z83313, AC005162, AC007050, AC005535, AL031294, AC004949, AF146191, AC005823, AC006946, AC007751, Z73361, AL034451, AL132766, Z84487, AJ011930, AC007541, AC002454, AL035695, AL035415, AL109733, AP000049, Z99716, AP000352, Z98950, AL136363, AC008064, AC004626, AC004453, AP000354, AP000311, AP000355, AC005327, AC004051, Z84467, AC006026, AC003686, AC007842, AL022097, AL121823, AC002488, Z86061, AC008179, AL008710, AC002412, AJ006998, AE000659, AL049554, AC007252, AL132985, AL078477, AC005541, Z84719, AL031904, AC006975, AC004996, AC004158, Z95118, AC007993, AC006369, AP000949, AC006115, AF047825, AP000515, AL035252, AL049844, AL049550, AL122023, AC005737, AL049838, AC004024, AC004451, AC004140, AC007277, AC006120, AC007065, AC005597, AL035422, AC003082, AC006031, AC004059, AC002449, AL078621, AL109854, AC006352, AL022069, AC000047, AL031446, AC003973, AL096862, AB019437, AL021397, AL121892, Z98255, AC004994, AC009225, AL118497, Z82205, AC009288, Z84470, AC004842,

HCWBX67	857	506730	1 - 508	15 - 522	AC003692, AC006397, AP000552, AC006152, AC010849, AL117351, AC004057, AC006984, AC004385, AP000023, AP000506, AC005342, Y10196, AC005871, Z81365, AL008709, AL080239, AC007363, AL031654, AC002403, AC007533, AL050333, AC007159, AL109656, AL050308, AF064866, AC004208, AC004081, AC005393, AL049565, AC006062, AL033397, AP000014, Z98051, AC002430, AC007617, AC006213, AF064862, AL021997, AC006227, AF064865, AC002524, AC005962, AC006071, AC009514, AC007384, AC002429, AF055066, AC004988, AB000882, AC004761, AC005768, AC004467, AC004459, U91323, AF164343, AC005516, AC018633, AC006487, AL109758, Z98941, AC006288, AC004830, Z98172, AC000100, AC006195, AC010349, AC002499, AL031012, AL022322, AC002056, AC005863, AL024497, AC004629, AC002381, AC004745, AC006270, Z94055, AL109753, and AC004889.
HCWBX75	858	767491	1 - 121	15 - 135	
HCWBZ78	859	706521	1 - 473	15 - 487	AL050322.
HCWCA51	860	849923	1 - 499	15 - 513	AC002395.
HCWCB37	861	527683	1 - 399	15 - 413	AF150189, AF150193, and AF150184.
HCWCB80	862	529234	1 - 210	15 - 224	
HCWCB89	863	542340	1 - 175	15 - 189	
HCWCC62	864	967306	1 - 386	15 - 400	
HCWCC77	865	527077	1 - 278	15 - 292	
HCWCC82	866	705347	1 - 393	15 - 407	
HCWCE02	867	849968	1 - 312	15 - 326	AL266137, AA446645, AA364006, AA689351, AW419126, AA365520, AA642464, AA223999, AA502207, AA526099, AW192199, H62778, AA805848, AA493464, AA525807, AL885896, AA603323, T67090, AA487209, AL272052, AA971196, W45205, AA238368, AA593471, H81270, AA527633, AA584655, AA485482, AA468505, F13749, AA468371, AA715173, AA715075, AA581895, H15241, AA302763, AA084609, AW028376, F25301, AA824484, AA552809, AL245693, AW089952, AL277211, AA630947, AW188742, AA296614, T65951, H91047, AA583728, S42653, AC004408, AC007136, M87914, AC005859, AC009247, AL135744, AL133353, AL022336, AC004686, AL121915, AP000088, AC004106, AC005049, AC005209, Z86090, AF207550, AC005229, AC002045, AC004975, AC004150, AF196972, AC002044, AC007450, AL049760, AC005484, AP000066, AC006130, AC004999, AC007880, AL022316, AC009516, Z85996, AL096776, AF111168, AC000353, U91321, AC004125, AL031659, AC004797, AL031589, AC006430, AL096791, U80017, AC006026, Z82217, AC002350, AF047825, AC005180, AC008033, AC005324, AP000096, Z94277, AF165926, AC004687, AC005006, D87675, AC004832, AP000252, AC002375, Z95152, AL049872, AP001053, AL035420, U91322, AF134726, AC007845, AC005619, Z84469, AC004673, AC003025, AC004491, AC006014, AL009173, AC002476, AC004813, AC000052, AC005412, AL035400, AC005971, AC007546, AL031681, AC006323, AL035658, Z94801, AC007226, AC004148,

					AL031662, AP000240, AP000501, AC005702, AC006050, AL024494, AC003106, Z82201, AL022721, AF139813, AC005730, AC005821, AL020997, AC004685, AC004019, AP000553, AP000065, AP000212, AP000134, AP000115, Z93017, AC002378, AC005086, AL021407, AC000387, AC004526, AC005488, AF064858, AP000104, AC002365, Z93241, AC000111, AL031432, AC005796, AL031311, AL035691, AC006344, AL133485, AC003982, AC004841, AC003110, AL035249, AL049759, AC006271, AF165138, AC003667, AC004682, AC004477, AC005921, AC005516, AC004765, AC005479, AP000009, AC002067, AC004859, AF205588, AL096712, AC003109, AC007358, AP000008, AC005562, AL031289, U91323, AC007040, AC007114, AL024498, AC004815, Z95114, AC005057, AC006057, Z98304, AC007842, AL031728, AC006453, AL121748, AP000509, AL132987, AL031594, AC002347, AC005369, AF109907, AP000704, AC004904, AC009294, AC002546, AC002039, AP000512, AL121923, AC006160, AC004223, AC005846, AL021397, AL035683, AC006120, AL031664, AC006576, AL132777, AC005043, AC002369, AC007193, AC004955, AC002310, AL122021, AL033517, AC004254, L44140, AC012085, AC004072, AC002477, AL049631, AC005071, AL109827, Z82195, AC007687, Z84487, AC005839, AL034451, AP000032, AC007308, AC006571, AC007536, AC007685, AF088219, AC004216, AC005914, AC005291, AC004517, AF190465, AC007860, AC003077, Z85986, AC011456, AC006501, AL021154, AL009181, AC002394, AC005081, AC004796, AC002470, AL078638, AC005678, AC003950, Z82244, AL133488, AC004913, Y14768, AC005632, AL049830, AC005696, and AL034371.
HCWCE21	868	523224	1 - 540	15 - 554	AA131704.
HCWCE35	869	706489	1 - 289	15 - 303	AW440424, N55515, A1025905, A1285493, A1683426, AL133906, AL133902, AA834670, AL446623, T70299, AC004983, AL035608, AC005800, AC006050, AF165926, AL031282, AF109907, AP000152, AC005354, X74984, AC004922, AF052051, AL049830, AF146367, AC003042, AF124523, AC005291, A3003147, U822668, AC006124, AC004890, AC002306, AC005288, AP000300, AP000549, AC006946, AL031666, AC005221, AC006197, AC004874, AP000113, and AP000045.
HCWCE63	870	527678	1 - 244	15 - 258	T96277, T96279, and AP000555.
HCWCE69	871	757800	1 - 284	15 - 298	
HCWCE71	872	932549	1 - 235	15 - 249	A1884861, N63755, AA586433, A1018736, A1624038, A1246061, AA341865, I171678, R48980, AW192648, AA317414, H81732, AA679353, AW088557, AA662614, AA054639, AW408396, H86579, AA063115, AA730488, AA371883, AA558404, A1367222, A1054090, AW069769, AA486877, W94450, N30205, A1360504, AA985199, AA077637, W42587, AA018923, A1249853, AA012829, A1284543, R87646, A1254770, A1251944, A1251034, A1251203, A1251284, R33091, A1250552, A1904944, AA303131, AA809011, AA206366, A1926597, R56810, A1459866, AA302660, H52397, AA304790, H53023, A1537800, H61871, AA774006, R19199, AA192731, H90032, A1251241, AL037006, W68328, H65213, A1223626, AW019964, AW303098, AA744095, H07953, T02817, AW265688, F23307, AA295893, A1903464, AA295899, A1369076, AW341741,

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HCWCE86	873	964648	1 - 389	15 - 403		AF070717, AF049895, AC002425, AL078644, AC004386, AC000353, AC004007, AC007192, AC002400, AC006064, AC002299, AC008067, and AC005756.
HCWCF04	874	615626	1 - 39	15 - 53		
HCWCF06	875	954580	1 - 204	15 - 218		
HCWCF01	876	527558	1 - 335	15 - 349		
HCWCF94	877	952684	1 - 536	15 - 550		
HCWCG31	878	527090	1 - 609	15 - 623		
HCWCG62	879	575336	1 - 320	15 - 334		T05617, A1523477, N38803, A1754567, A1754105, A1755214, A1298079, A1863279, AW023975, AA614139, A1860535, AA209436, AA363957, AL042373, A1279417, A1080732, AL038977, A1491755, AA582746, A1624234, A1267356, AA741301, AA489860, A1630894, A1078409, A1278211, A1560073, A1249688, AW316599, F29071, A1686563, AW373645, AA831638, A1038304, AA612578, A1356264, A1569100, AW192599, A1080307, AA832016, AA984543, T67090, A1583142, AA507990, AA311432, H40478, AW071109, AL134167, AL045476, AA995827, AW439703, AA702550, AC005399, AF038458, AL031121, AC012085, AC005014, AL031985, AC002994, Z83844, AR036572, U91328, AC003662, AC006449, AL121653, AC005839, AC007386, AC009501, AC004019, AF064857, AC005589, AF139813, U80017, Z82195, AC002395, AC004963, AC005015, AC006064, AC002094, AC005520, AL031005, AL049282, AC005529, AL022238, AL034429, AL024498, AC003025, AL049829, AC004882, AL034418, AL022331, AC006343, AL133382, X60459, AC003103, AC004986, AC004223, X64467, AL022400, AC004228, AC005018, Z75887, Z97056, AC006111, AP000555, AC010077, AC002492, AL133163, AC007207, AC007385, AL109842, AC004144, AC004131, U89337, AC000092, AP000692, AC005932, AL050318, Z82244, Y10196, AC004991, AC003108, AC006032, AC004664, AC007934, AL049779, AL049636, AC004033, AP000152, AP000011, AC004382, AC006930, AC005578, AL022328, AL035700, AC007731, AC006084, AC005500, AC005182, AC002477, AF049895, AC004644, AP000501, AC003007, AL031589, AL008715, U55184, AL008710, AL049576, AL022313, AC005102, AL049780, AC005017, AC002316, AC004016, AC006125, AL022476, AL031433, AC005482, AC007191, AP001137, AC005037, AL034402, AL035684, AC006292, AC005740, AC006101, AL121754, AC000134, AF053356, AL021546, AC009399, AC006597, AL049229, AC002422, AC004820, AC007536, AC005666, AC006130, AC005086, AL049872, AP001058, AC006480, AC005516, AC006238, AC007228, D86995, AC009363, AC007057, U95743, AF047825, Z98044, AC000353, AC006323, AC004804, AL049697, AC004805, AC003104, AC004876, AL033397, AC000159, AC005632, AF126403, AC007114, AP000359, AC002073, AL031274, AJ003147, AC006531, U91321, AL031672,

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HCWCH01	880	920706	1 - 279	15 - 293	
HCWCH122	881	675011	1 - 132	15 - 146	
HCWCH45	882	577704	1 - 292	15 - 306	
HCWCI01	883	921586	1 - 437	15 - 451	
HCWCI38	884	556358	1 - 544	15 - 558	
HCWCI86	885	790718	1 - 147	15 - 161	
HCWCI85	886	529243	1 - 324	15 - 338	
HCWCL10	887	888992	1 - 466	15 - 480	
HCWCL62	888	715981	1 - 309	15 - 323	
HCWCL67	889	751963	1 - 328	15 - 342	
HCWCM16	890	667392	1 - 231	15 - 245	
HCWCM65	891	529230	1 - 437	15 - 451	
HCWCM96	892	963564	1 - 225	15 - 239	
HCWCN25	893	518793	1 - 297	15 - 311	
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HCWCN40	894	835584	1 - 425	15 - 439	AL032822.
HCWCN45	895	723418	1 - 505	15 - 519	AC0904098.
HCWCN61	896	924894	1 - 294	15 - 308	
HCWCN02	897	527088	1 - 419	15 - 433	AA716191, AL031432, and Z65992.
HCWC002	898	920876	1 - 303	15 - 317	AA554430, AA528234, F16356, AC007263, Z86064, AL122023, AL008719, and AC002430.
HCWC021	899	523225	1 - 145	15 - 159	
HCWC035	900	706490	1 - 504	15 - 518	F30251, AA371410, AA831919, AA385775, AJ929796, AW089625, AL145334, R70883, AI283938, AW008184, AA535216, R92658, F24272, R70884, AA610255, AI885465, AI884383, AI908508, AI908525, AI278801, AC004491, AC004448, AC005291, AL031121, AC007880, AC007193, AC003041, AC008372, AL049776, AF196969, AC005091, AC016830, AC005102, AC006449, AF042484, AC006013, AC005921, AL009181, AC006948, AC005180, AC004242, AC006023, AC007488, AC004659, AC002039, AC004891, AC005399, Z75744, AC004019, AL031733, AL031228, U95742, AC007216, AL035684, AC004087, AC005971, AL110502, AL049646, AL031289, AP000555, AC002425, AL096712, AC007226, AP000689, AL031311, AC005535, AC003663, AC005225, AC008041, AC005820, AC006530, AC002400, AL031588, AC005874, AF134471, Z95115, AL117355, AP000512, AC007056, AC004475, AC004913, L78810, Z83844, AC007690, AC006160, AC006277, AF109907, AC005803, AC005015, AC004686, AC004865, AB020865, AL121653, AC005668, AC005932, AC004921, AC004843, AC012627, AL078639, AC005839, AC005954, AC006441, U96629, AL022165, AC007386, AC004033, AL035413, AC006001, AC004142, AP000302, AC004859, AC009533, AC005736, AL132994, AC006285, AC005726, AC002094, AC007055, AD000092, AC005520, AP000500, AF111168, AC005081, U95740, AL121923, AL121825, U07000, AC002544, AC002470,

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HCWCO54	901	558274	1 - 368	15 - 382		N53621, AW302766, AA843874, AC007677, AP001136, AC009308, AL034377, AP000473, AC003669, Z84469, AC006948, AC007077, AL023799, AP000099, Z97198, AP000036, AL035686, Z68326, AC005341, AC007126, AP000262, AC002367, Z83313, AC009399, AC004806, AL022166, AC002066, AJ229041, AJ132269, AF020801, AF107885, AC007556, AC004597, AC005837, AC002527, and AL080239.
HCWCO63	902	557917	1 - 310	15 - 324		
HCWCO72	903	527546	1 - 296	15 - 310		AC005907.
HCWCO77	904	772515	1 - 99	15 - 113		
HCWCP68	905	573148	1 - 203	15 - 217		AA28573.
HCWCQ15	906	527688	1 - 312	15 - 326		AL008639.
HCWCQ48	907	531423	1 - 106	15 - 120		
HCWCQ95	908	723610	1 - 99	15 - 113		
HCWCR31	909	693632	1 - 656	15 - 670		
HCWCR64	910	526482	1 - 309	15 - 323		N66690, AI200947, AI127410, AI932346, AW008872, C06101, and AA053116. AW150387, AA533054, H71678, AA568314, AW419389, H72278, AI187148, F31811, AL040374, AI431513, AA605266, AA610433, AA904211, AA018923, AA513921, AW167154, AA468505, AA468371, AI1880329, AA516320, AA809179, AI917132, AA056248, H67064, AA579278, AA493628, AA492524, AW002831, H72688, AI640411, AA605201, T74524, AA228368, AA721561, AW275699, AA742775, AA282951, AA862075, AI583291, AA365520, R74433, AA577141, AI635440, AA689351, N73060, H84412, H79453, AA515138, AI569401, AI366993, AI915293, AA526193, AA502098, AC004525, AC002303, AC007227, AL024507, AL021368, AC005088, AF196969, AF030453, AL034371, AL031905, U62317, U95743, AC004985, AC002565, M87889, U95741, AF053356, AC005971, AC004883, AL031657, AL022336, AC006079, U07000, AL049539, AL049780, AC008072, AC005841, AP000052, AP000120, AP000702, AF111168, AC002375, U02047, U91323, AC004815, AC004862, AC005828, AC004887, AC006241, AL031282, AC002352, AC006486, AC000004, AL096701, AC009516, AC004983, AL049569, AC006088, AL031056, L78810, Z84487, AC005244, AP000320, AC009464, AL049758, AL020997, AL049692, AC004448, AP000884, AC006285, AC003663, AC005899, AC004466, AC003085, AC005041, AF002223, AL031985, AL121769, AP000141, AL021918, Z98941, AC006965, AC005632, AL109801, AP000167, D87009, AC006449, Z95113, AP000553, AC004685, AC006117, Z95152, AL033527, AF047825, AF134726, AC002551,

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HCWCS12	911	585202	1 - 285	15 - 299	
HCWCS51	912	921636	1 - 217	15 - 231	
HCWCT07	913	954070	1 - 258	15 - 272	AC002306.
HCWCT23	914	676336	1 - 250	15 - 264	
HCWCT48	915	741925	1 - 447	15 - 461	AC005599.
HCWCT85	916	527543	1 - 321	15 - 335	
HCWCU01	917	921618	1 - 310	15 - 324	
HCWCU17	918	577688	1 - 329	15 - 343	
HCWCU32	919	725584	1 - 427	15 - 441	AA729117, A1791301, A1791458, A1732502, AA171892, and AA526416.
HCWCU57	920	764602	1 - 451	15 - 465	A1014353, AA592982, and R17976.
HCWCU58	921	527695	1 - 305	15 - 319	AW418610, and AL109667.
HCWCU63	922	527541	1 - 163	15 - 177	
HCWCU94	923	713416	1 - 292	15 - 306	
HCWCV01	924	921569	1 - 293	15 - 307	A1433503, AA715955, AW150900, W04964, AL031662, AL109623, AP000009, Z98742, and AF196969.
HCWCV09	925	861950	1 - 420	15 - 434	
HCWCV16	926	861839	1 - 552	15 - 566	

HCWCV58	927	966512	1 - 314	15 - 328	W21218, A1445373, A1049701, N42508, A1870444, AA151904, A1564301, AA147801, AL134898, AL120698, A1056259, W63553, AA515172, N73169, A1246061, AA278496, AW019964, N77384, A1537020, AW238016, A1557090, A1223626, A1973173, F08866, AW021116, R48980, A1860535, A1054090, A1251024, AA728861, AA565911, AA715351, A1284543, A1254770, AA448050, A1927261, A1251944, A1251034, A1251203, A1251284, AA559166, A1250552, AL096791, AC010205, AP000201, AP000097, Z99716, AP000240, Z98304, AC003087, AP000556, AL031685, AC006211, Z98742, AC005034, AC004223, AC002476, Z83844, AC007380, AP000557, AL034555, AC005839, AL132716, AL034449, AP000553, AC003007, AC004991, AC012083, AC002381, AC002425, AL022324, Z98946, AC005015, Y10196, AP000355, AC005821, Z93023, AC002470, AC002091, AL139054, AF130342, U80017, AL035420, AC004485, AL121653, AC009509, AC005740, AC005722, AP000248, AB023049, AR036572, U91328, AC004126, AL033397, AC007707, AL049694, AC006130, AL035659, AL109865, AF196969, AC005829, AL109657, AC002368, Z84466, AC009247, AC002347, AC007055, AC005011, AF001549, AC004827, Z98048, AP000352, AL031680, AC005235, AL049794, AC005081, AC003029, AC003101, AC004079, L44140, AC005261, AL121652, AC004659, AC006992, AL034419, AF111168, AC005003, AC005486, AP001053, AC012384, AC006285, AC005089, AC005534, AC005071, AC004797, AL022165, AP000343, AC006312, AC005519, U89337, AL078613, AC003663, AP000501, AL021878, AF200465, Y07848, AC002457, AC003982, AC005696, U95739, AL022334, AC006511, AC006333, Z98051, U96629, AP000039, AP000107, AL079340, AL031281, AC009399, AC007057, AL031228, AC002563, AL035587, AC005919, AC005274, AC005911, AL035071, U91323, AC005072, AL031286, AL121603, AL034582, Z84489, AC008498, AC004491, AP000345, AC007193, AC004448, AC005952, AP000555, AC007225, AL133163, AC005330, AL050404, AP000689, AC005632, AL096701, AC005225, Z83826, AL109801, AL035682, AP000344, AL008718, AL022326, AC004139, AL008627, AL031985, AC005799, U78027, AC004834, Z98041, AC004821, AC005014, Z98884, AF196779, AP000300, AC005095, AC006512, AC007934, AL117337, AC007200, AL035422, AC005243, AL031283, U82828, AC005332, AC005971, AL035089, U52112, AL022336, AC005702, AC004891, L48038, AL132826, AP000113, AP000045, AC007011, Z93017, AC004816, AL022319, AC004647, AC006529, AC004859, AC005684, AC007551, AF205588, AL049692, AC004475, Z98044, AL034553, AC007371, and AC003689.
HCWCV75	928	527080	1 - 226	15 - 240	
HCWCV85	929	966987	1 - 318	15 - 332	AC004801.
HCWCV93	930	792550	1 - 76	15 - 90	
HCWCX18	931	574933	1 - 364	15 - 378	
HCWCY16	932	507191	1 - 215	15 - 229	
HCWCZ33	933	523265	1 - 223	15 - 237	
HCWDB74	934	521894	1 - 265	15 - 279	AA745628, N69399, R32162, T51436, A1246386, H80215, A1139971, N27874, AA565911.

AA523719, AW390278, AI566236, AA515160, AA299351, AA425924, AA984585, AI583745, AA649174, AW377921, AI570019, AI281622, AI679759, R70884, AA833828, AW377907, AW377863, AW377912, AA078384, AA468494, H60331, AW176639, H63953, AA468956, AW390555, AW377894, AL038977, AW377926, AW377843, AW377862, AA484191, AW390250, AA702637, AA584788, AI133083, AI246061, AA516018, AA678616, AW151870, AA548221, AI524240, AA468975, R70883, AW384076, AW237903, AA514450, AA218835, AI734155, AI282821, AI983447, AA722331, F33820, AI749306, AI538491, AW270255, AW3337483, AA309457, AA334993, T31290, AA357878, T53133, AW179040, AA572813, T40210, AI369925, AA579281, AI240755, AA625565, AA419225, AI290777, AI373810, AA366676, AI628482, AW379218, AL042667, AL042670, AA564925, AL050321, AL023807, AL033524, AC005081, AC005015, AF121781, AL035106, AL080243, AL049611, AC005225, AL031286, AF001549, U61981, AC005746, Z69705, AC005940, AC002112, AP000131, AP000209, AC004754, AL049776, AL034421, AL022069, AC005291, AJ011930, AL008629, AL022400, AL031428, Z82179, AL022336, AP000264, AP000101, AP000035, AL035690, U50871, AL035445, AC005368, AC005527, D87675, AC005480, AC005844, AC007227, AL022721, AC007283, AC003963, AC004890, AC000003, AC002073, AC005901, AL049712, AC007656, AC006305, AP000094, AC003954, U66061, AC005516, AC007298, AC005235, AF067574, AC005529, AC005383, AC006576, AC010170, AC005972, AC005821, AC002390, Z84474, AL031848, AP000501, AF184110, AP000502, AF134726, AC006059, AL109865, AF109907, AC006271, AC005899, Z98749, AC002456, AC005037, AC004137, AC004966, AP000140, AP000089, AL022326, AL035455, AL049588, AC007226, AC005874, AF134471, AC002542, AL139054, AC005377, AL033392, AL022725, AC005011, AL121769, AP000543, AP000239, AL031588, AC009275, AC004230, AL034548, AC009308, AL031257, U96629, AC002472, D28126, AP000282, AC007536, AC004913, AL049563, AC005086, AL022396, AF047825, AF053356, AL096774, AC004216, AC006008, AC006241, AC005091, AP000313, AC004209, AL022311, AL021937, AP000513, AL034350, AC003070, AC004020, AC005694, AP000194, AL035413, AB020863, AC006417, AP000088, AL049834, AC005164, AL078639, Z95118, U95742, AC012085, AP000108, AP000040, AC006088, AC004583, AC004500, AC004812, AP000050, AP000248, AL096791, U91326, AC007263, AF030876, AL121825, Z84466, AC002395, AL049781, AC000041, AF045555, AL020997, AC005914, AL031668, AC007666, AC000035, AC004143, AL022237, AC003030, AC004558, AC004217, AC002551, Z98048, AC000025, AL034551, AL022324, AC019014, AP000350, AC005261, AC005010, U85195, AF111168, AE000658, AC006011, AP000117, Z98745, AC007934, AC006254, Z92542, AC005230, AL035071, Z99943, AL035460, AL133245, AL121653, AC007425, Z82194, AC006430, AC007347, AL022238, AC006001, AC007057, AL049872, AC006277, AL034423, Z95400, AC008273, Z95152, AC004805, AF172277, AC005678, AC005184, AC005722, AC002289, AC002369, AP000503, AC005846, AC002403, AC005288, AC002307, AC010202,

HCWDB94	935	531417	1 - 299	15 - 313	and AC008041.
HCWDD15	936	660571	1 - 264	15 - 278	
HCWDD60	937	575555	1 - 147	15 - 161	AI697096.
HCWDG46	938	715509	1 - 147	15 - 161	
HCWFG49	939	861951	1 - 449	15 - 463	
HCWDH65	940	574250	1 - 533	15 - 547	
HCWDH85	941	574262	1 - 168	15 - 182	
HCWDH92	942	790618	1 - 212	15 - 226	
HCWDI37	943	849867	1 - 414	15 - 428	
HCWDI43	944	527685	1 - 309	15 - 323	
HCWDI64	945	924632	1 - 238	15 - 252	
HCWDI72	946	573034	1 - 163	15 - 177	
HCWDI79	947	526765	1 - 394	15 - 408	
HCWDI82	948	671636	1 - 221	15 - 235	
HCWDI89	949	953750	1 - 756	15 - 770	AA703394, AA128633, AA001607, T91402, AA001264, T84635, AA877628, and T25726.
HCWDI92	950	733422	1 - 341	15 - 355	AP000456, and AL078474.
HCWDJ21	951	524780	1 - 347	15 - 361	
HCWDJ23	952	527555	1 - 346	15 - 360	
HCWDJ31	953	531418	1 - 262	15 - 276	AA843450, AA077952, F19258, AA626678, AA469451, AA340003, AA743956, AA745410, N27351, AA327323, AW438916, F29989, AW406755, A1872227, R91994, AW021583, A1358229, AL041368, AW340844, AW440836, A1365988, A1792108, AW339687, A1635272, AA618158, A1439269, F31204, A1824562, AA077817, A1246796, A1205126, AA515128, AW105538, A1003734, AL133723, A1803348, A1250019, AW236342, A1144055, AW088202, AA932099, AA594145, A1216799, AA377730, AA077223, F37286, AA486680, AA016075, AW304584, AW440976, AA947801, AA515938, AA228329, AL040913, AW269639, A1820539, A1286264, AA515435, AA551509, A1003743, A1291124, W60516, F35659, A1291268, A1963263, AW074398, A1537030, AW419262, AL037554, AA610786, A1267847, AA362700, AA084070, A1653809, AW104748, A1608626, A1003172, AA515224, AA713815, A1138265, AW086257, C16459, A1962050, AA745582, AA077935, AA581342, AA338234, A1079812, AA633892, A1050007, A1917271, AA363989, A1471481, AA744074, AA744088, AA745355, F25203, A120483, AA515051, A1357551, A1929531, A1049722, A1433187, AW162049, AW303876, A1284640, A1816537, A1908628, AA557879, A1873916, AW407578, AA501344, A1469878, T12272, AA659774, AA252729, AA338431, M78177, A1802526, A1952786, A1244758, AW274349, A1890923, AA715606, AW338754, AA341398, A1866964, A1240891, AW303196, AW301350, AW188484, AW029038, F36273, A1306524, A1287284, A1904894, AW166815.

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HCWDL45	954	523227	1 - 440	15 - 454	X55448, AC006388, Z85987, AL021940, AC004029, and AC005011.
HCWDL89	955	697736	1 - 410	15 - 424	AC003678, and AC003689.
HCWDL19	956	669721	1 - 356	15 - 370	AA279751.
HCWDL45	957	889416	1 - 397	15 - 411	Z98747.
HCWDL68	958	752320	1 - 163	15 - 177	AA315353.
HCWDM02	959	920563	1 - 413	15 - 427	
HCWDM06	960	935898	1 - 175	15 - 189	
HCWDM07	961	933742	1 - 468	15 - 482	
HCWDM14	962	849962	1 - 370	15 - 384	AW275378, AA551080, AA971039, D45576, Z60609, and Z60608.
HCWDM23	963	676215	1 - 449	15 - 463	
HCWDM60	964	754785	1 - 324	15 - 338	
HCWDM79	965	578967	1 - 340	15 - 354	
HCWDM15	966	557862	1 - 193	15 - 207	AF049574.
HCWDM60	967	861882	1 - 273	15 - 287	AW104830, and Z99714.
HCWDO11	968	967364	1 - 339	15 - 353	
HCWDO56	969	961273	1 - 516	15 - 530	
HCWDO65	970	920523	1 - 424	15 - 438	
HCWDP85	971	747141	1 - 282	15 - 296	
HCWDO35	972	573577	1 - 311	15 - 325	
HCWDR01	973	839104	1 - 465	15 - 479	AC022517.
HCWDR42	974	529354	1 - 285	15 - 299	AC006146.
HCWDR63	975	849899	1 - 531	15 - 545	H47333, AA465102, AA614574, AC006343, AL049759, AC004876, AC006515, AC007057, AC005370, AL096755, AC004084, AC005037, and AC005488.
HCWDR86	976	527690	1 - 513	15 - 527	
HCWDR89	977	787025	1 - 283	15 - 297	AA158919.
HCWDS10	978	880973	1 - 410	15 - 424	
HCWDS19	979	418009	1 - 203	15 - 217	
HCWDS26	980	684696	1 - 370	15 - 384	AI859744, AA525331, AW249151, AI720943, AA715075, AI567391, AA715173, AA482928, AA209208, AA774098, AW372037, AL049569, AC004962, U82828, Z97054, Z84466, AC004087, AC007684, AC006312, AL022323, AC005971, AL034420, AL021154, AC003108, AC007298, AC002477, AC005527, AC003003, AL031663, AC007160, AF001549, AF109907, AL049843, AC005280, AC004520, Z97353, AC005399, AP000213, AC004222, AC002549, AC007685, AP000135, AL117258, Z98949, AC005914, Z95115, AC005529, AC004554, AP000031, AC006116, AC002302, AC006077, AC005324, AL133245, AC006006, AC005618, U96409, Z82206, AC006210, AC006195, AC004884, AC005235, AC007686, AL034429, AC002349.

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HCWDS40	981	523301	1 - 427	15 - 441	
HCWDS41	982	669754	1 - 352	15 - 366	
HCWDS48	983	861849	1 - 425	15 - 439	
HCWDS52	984	771881	1 - 343	15 - 357	AA093224, N89520, and AF045432. AI937612, AA729747, AW081591, T57592, and AC005261. AI049996, AI538540, R94288, AA365586, AI952900, AC004253, AC004815, AC005529, AC004686, AC002351, AC005722, AC009178, AL049709, AI003147, L44140, AC005231, AC005071, AL135744, AC007676, AC004895, Z99716, AC008372, AC002126, AC000120, AC006241, AC005527, U48696, AC005841, AC006486, AC002316, AC004024, AL121852, AC006023, AC005703, Z68324, AL031767, AL031848, AC005781, AC006538, AC006084, AC006285, AL080243, AC004820, AL035413, AL133448, Z93023, AP000552, AL022721, AF196779, AC009464, AL050307, AC005348, AC004623, AL109799, AC004067, AC004887, AL034420, AL117694, AP000688, AC004890, AC011311, AP000513, AC007225, AC002477, AC007376, AL031680, AC016025, AF196969, AL133249, AC004526, AC002073, AC004263, AL021578, Z85987, AC002365, and AC007686.
HCWDS55	985	861943	1 - 441	15 - 455	
HCWDS59	986	934914	1 - 417	15 - 431	N83993, N83168, AC004924, and AF045432.

HCWDS61	987	741992	1 - 394	15 - 408		AA406404, AW405796, AA233053, A1741861, H67245, AA292217, A1301933, R69395, H43955, AA625270, AA371992, A1033494, N42102, AW025130, AA010129, A1870802, R48046, A1799541, H26714, A1304348, A1017809, A1310484, AA056473, A1220164, AA234535, A1208430, A1470071, A1560756, H81562, H26715, A1131097, AA232686, and AC004258.
HCWDS83	988	612257	1 - 480	15 - 494		N88601, AA247964, N88782, AA095359, H58760, N83168, N89520, N84855, N83991, AA247827, N83992, AA096046, N84048, S78798, AF103726, U48696, AF045432, AF039698, AF102850, and AR066487.
HCWDS91	989	557931	1 - 431	15 - 445		AC005940.
HCWDS94	990	959650	1 - 417	15 - 431		
HCWDT12	991	573487	1 - 368	15 - 382		
HCWDT84	992	542238	1 - 320	15 - 334		
HCWDV17	993	974478	1 - 684	15 - 698		N88601, N84855, N89520, N83992, AA095359, AA247827, AA247964, N84048, N83991, AA096046, N83168, N88782, H58760, AA093224, N84718, N83993, AA095641, AA096066, N86694, N84712, AA471338, N55698, N88518, N84830, N84829, AA215908, AF045432, AF103726, S78798, AR066487, AF039698, AF102850, U48696, AF032922, A1243486, and U39066.
HCWDV82	994	529210	1 - 124	15 - 138		AL132712.
HCWDW05	995	852997	1 - 332	15 - 346		N57782, AW157128, A1038029, AA129000, A1061313, AA349923, A1520984, A1174489, A1828721, A1285651, R79396, AW192002, AW337817, AA533660, M77964, AW021674, AA557945, AA364147, AA135761, AA018258, AW021847, A1572680, AW069110, A1370470, N80469, A1308529, N55076, AA610644, AA205931, AA579417, H24331, F17312, AA526659, A1345256, A1708565, A1307563, N99564, H52795, A1003391, AA828840, AA730530, H59856, AA526658, A1003068, AW020682, A1684999, A1760850, AA218684, AA084320, A1567676, AA676462, AA084148, AW028376, H53373, A1124558, AW341878, AA834891, AA598497, R87909, AA053463, R86876, A1570067, T59937, AA468923, R88475, AA083850, AW069769, AA372646, AA632869, AA293809, H81012, AA411337, A1884404, F04021, AA613765, A1926876, AA015948, AA658443, AA748071, F24745, AW243864, H57065, AL044566, N25281, N55296, AA227713, AA369465, AA640305, H05066, AC004983, AC005234, AC003102, AL079342, AF111168, AD000671, K03021, AL031291, AL022318, AP000691, AC005031, AC005046, L47222, AC005331, AC004999, Z98200, AL133448, AL049540, AC006088, AC005839, I34294, AC005412, AL121655, AC005332, Z97630, Z93017, AL121825, AC007537, AC006953, AC005180, AL080243, AL035071, Z84488, AC005837, AC002369, AL035587, AC005089, AC007055, U85195, AP000692, L47229, AC006946, AC004491, AC005081, AC006116, AE000658, AC005329, Z94161, AC002310, AC005102, AC004099, AC007051, AC005755, AC005696, AC006277, AC007919, AP000689, AC005355, AC007546, AC005666, AC005768, AC005011, AC002312, AL034548, AL050321, L47227, AL135744, AC005682, AC007676, AC012627, AC005300, AB001523, AC000379, AC000039, AC006538, AC006251,

					AB003151, AL049759, L44140, AC000070, AF196779, AC000082, AL049694, AC004859, Z81364, AC005921, AL049757, Z95114, U91323, AL078584, AC006449, AC006443, AL121653, AC000159, AC005828, AC004765, AL021407, AL031286, D28126, AC006079, AL022163, AP000260, Z98946, AP000210, AP000132, AP000213, AC006942, Z93024, AL021877, AC007536, AL096701, AP000555, U07562, AL022315, A1246003, AP000135, AL035086, AP000099, U80017, AL133163, L78810, AC003098, AC005971, AP000356, AC002492, AP000036, AC005231, AL050318, AL049872, AP000248, AC005800, AC005821, AL022326, AP000031, AL033533, AC005280, AC004019, AC005484, AL049869, AL031229, AC002381, AC008041, AF001549, AC003957, AL109798, AC007371, AC006040, AL031255, AF045555, AC006006, AC002045, AF015416, AC002553, AL121658, AL035460, AP000557, AL020997, AC006075, AC004997, AL031774, AL031737, U91326, Z69705, Z83844, AC002039, AP000317, AC003665, AP000051, AP000119, AP000166, AL008719, AC004000, AC004150, AL031589, AP000500, AC008372, AC002470, AC006509, AL022302, AC002094, AL034420, AL009179, AC004650, AL022316, AC004985, AC004893, AC000025, AP000553, AC004754, AP000365, AL023799, AF196969, AC007421, AL024508, AC005585, AP000547, AC002464, AC006222, AC006468, AC004953, AC003083, AL139054, AP000255, AC009405, AC004242, AL035458, AC005200, AC005527, AL024498, AC005606, AL049781, U95739, AL021453, AL121769, AC004659, AC002565, AC005323, U95742, AP001052, AC004895, AC001228, AC005520, AP000152, AC000388, AC004703, AC002543, AC004975, AL022165, AL109984, AC004673, AC005039, Z95116, AC004263, AC009516, AL049553, and AC004973.
HCWDW08	996	861936	1 - 372	15 - 386	AC011625.
HCWDW13	997	523236	1 - 344	15 - 358	
HCWDW17	998	849938	1 - 294	15 - 308	
HCWDW29	999	849939	1 - 223	15 - 237	H05821, A1821975, A1022708, R98591, AC003662, AC004966, Z99128, AC005510, AC004859, AL079342, AC005067, AL031577, AC007425, U62317, AC004686, AL049631, AP001040, AC006014, AB023051, AP000512, Z74739, AC003109, AC004834, AL022238, AC009509, AC005488, AC000026, AC002059, AC005874, AF134471, AC005844, AC005737, AC010205, AC005476, AC002045, AC000039, AC004750, U95740, Z83845, AC002551, AC005015, and AP000496.
HCWDW33	1000	573554	1 - 333	15 - 347	
HCWDW42	1001	462405	1 - 533	15 - 547	AA828984, AA365347, N43757, AA450199, A1921649, A1376100, AW074059, A1356904, A1922654, A1564284, C18357, C18360, AA658235, N53150, AA100489, T28550, A1956124, A1453383, AA593060, AA428414, AA192337, F26152, A1570138, AA629106, AA776936, AA828704, AA776921, T16592, AA584749, M86058, AA228329, AA653964, AA328591, AA303261, AA353595, AA723017, F24284, N59782, AA320748, A1371429, W07032, AA703692, AA397572, A1372413, A1758582, A1364809, AA176924, AA927637, A1340453, AA558656, A1561335, AA372875, A1061334, A1053672, A1334443, AA919037, AA196020, A1349874,

					<p>C16624, AW117750, A1688846, A1921188, AW303876, A1963720, AA528516, AL046409, A1344844, AC007848, AC004712, AL121603, AC006277, M62424, AR025392, AP000352, U96409, AL033381, AC004066, AL109799, Z84718, AC005338, AL136295, X03272, AP000496, AC004862, U63721, AP000134, AP000212, AF107885, AC005866, U66059, L78833, AC004941, AP000350, AF131217, AC003983, AP000351, AL121934, AC006333, Z99774, AP000692, AC004592, Z92540, AC008115, L49046, AC005887, AC004992, AC003966, AC005618, AL022329, AC007536, X78901, AC006538, AL021918, AC006241, U47924, AC004802, AC006120, AL096862, Z84474, AL109984, AC005856, U95740, AC006332, AC007263, AL022323, AP000356, AL031733, AC004638, AC003112, AL049613, AP000512, AL022318, AL079340, AL049757, AC004933, AC005696, AP000034, AC004741, AC007435, AC005690, AL020993, AL009031, AC002326, AC005940, AC006007, AL133382, AL035681, AL121591, AC007285, AL008629, AL031255, AF023268, AC006146, AL035460, AC006462, AL049776, X53548, AC005625, AP000252, AC006077, AL049610, AC004542, AP000031, AL139054, AP001053, AC006285, AC007680, AL035071, AL133485, AC009516, AL109657, Z99496, AC008134, AC003035, U07977, AL121915, AC004804, AP000553, AC002508, AC016026, AL049712, AL021155, AC004010, AP000354, AC003050, AC005231, AC006511, AP000552, AP000230, AP000144, AC004895, AC020663, AC000353, AC007707, AC008173, Z86062, AP000555, AC006211, AL049766, AC004948, AC005911, AC003977, AL049759, AC004168, AC006449, AL132987, AL031276, AC005284, AF190465, AC002425, AC004468, AC004383, AC002544, AL035361, AC005998, AC000003, AF023460, AC004659, AF015153, AC004087, AL021877, AL023284, AC004650, AC005703, AF108083, AC002364, AC006001, AC006157, AC005486, AF165926, and AL133245.</p>
HCWDW43	1002	714423	1 - 345	15 - 359	<p>AW419201, AW274349, A1625244, A1613459, AL042420, AW302013, A1284640, A1312309, AW166815, AL119691, AA713815, A1471481, AA682912, AA581903, AW162049, A1929531, AL046409, A1281881, AA493464, AW073470, AW167799, AA531372, AA634227, A1859742, AW020340, F36273, AW303196, AW103981, AF177861, A1319850, AA425283, AA601492, AA521323, AA502103, AA630476, AW085751, AW301350, AA229005, AW103758, A1310670, A1567674, AW265385, F30933, AA244357, AW304584, AW341992, A1754955, AA219129, AW072963, AL038785, A1702049, AA521399, A1368745, AA593247, AA489390, A1935827, A1061143, AL036334, N53150, A1801591, AA631915, AA525824, A1889781, A1611990, AW162314, A1367975, AA469451, AA584201, AL042753, AA806796, A1174703, AA837677, AW265468, AA595661, AL121039, AW162332, AC005808, AC007051, AC007919, AF077058, AF015151, AL121934, AC005907, AL023575, AC007066, AC005754, AC005049, AC006511, X75335, AL139054, AL034420, AL009181, AC005330, AL049636, AL008582, AC007216, AL031680, AC005225, AL035659, AC002310, AC006037, AL009179, AC002544, U91326, AP000503, AF134726, D83989, AC004134, AC004099, Z85986, Z93023, AL022322, AC005231, AL035460, AL030312, AL049874, AC016026, AC006277, AP000704, AC016025, AC007845,</p>

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HCWDW57	1003	927656	1 - 235	15 - 249	AC004961.
HCWDW61	1004	574859	1 - 351	15 - 365	N83991.
HCWDW62	1005	849960	1 - 586	15 - 600	
HCWDW73	1006	861934	1 - 373	15 - 387	AA341865, AA363003, N40092, A1819262, A1061303, T30418, A1372604, AA322542, AW169038, H53217, AA078184, AA668166, T97322, AA572753, AA455205, A1359200, AA626840, AA515254, A1188049, A1270647, AA010973, AA420801, AL048275, AW247389, AA683091, AA350406, F00564, R95840, AA215585, AL079869, R49266, AA047849, N47855, AW327852, N52323, AA078137, N33851, AA713714, N72170, AF034180, AA470567, H60249, A1678581, H78898, H67649, AW068580, AA513884, AC003980, AC006241, AL031680, AC004552, Z93017, AC004805, AC002425, AC005069, AC005546, AC007011, AL109613, AC005632, Y14768, AC006254, AC007216, AC005920, AC005335, AC006312, AP000505, AC002073, AC007386, AC002352, AF196969, AF109907, AP000345, AL096701, AP000346, AL031846, AL031597, AC002400, AC003013, AC002398, AL049780, AL024508, AC005829, AC005089, Z99716, AL031662, AL136295, Z93930, AC004500, AP000359, AL080242, AL133312, AL024498, AC007388, AC006565, AL008718, AC005399, AC007276, AC005578, AC004895, AC011311, AP000696, AC004796, AC004491, AC006141, AC005531, AL031577,

					Z83847, AC005189, AC005015, AF200465, AC000085, AC005598, AC006075, AC007358, AL031602, AC005280, U15177, AC004843, AC004849, AL096703, AC001231, Z82194, AC005822, AC006080, AC004638, AC005954, AP000065, AC004263, AC007686, AC006153, AL121769, AC004531, AC007066, AC007263, AC005004, AL049760, AC005940, AC000159, AC006299, AC006480, AC004821, AC004477, AL121658, AC005722, AC003026, AC007227, and AF196779.
HCWDW74	1007	952698	1 - 421	15 - 435	
HCWDW78	1008	773698	1 - 336	15 - 350	
HCWDW90	1009	529233	1 - 301	15 - 315	
HCWDW93	1010	574155	1 - 401	15 - 415	
HCWDW94	1011	753166	1 - 942	15 - 956	
HCWDW96	1012	975401	1 - 52	15 - 66	
HCWDX19	1013	523233	1 - 447	15 - 461	
HCWDX22	1014	967361	1 - 415	15 - 429	
HCWDX36	1015	861932	1 - 366	15 - 380	AI022659, AI248903, R16508, AL036251, AI688963, AI537814, AC005015, AC006512, AC000120, AF173228, AF053356, AC000119, AL096701, AP000558, AC007263, AC005519, AC002301, U47924, AC005902, AC004491, AL022316, AC005081, and AF003626.
HCWDX39	1016	573574	1 - 332	15 - 346	
HCWDX52	1017	661568	1 - 535	15 - 549	AW339619, AW169183, AI797998, AA595661, W85818, AL042667, AL042670, AL039117, AI744963, AA489390, AI732596, AI439525, AI251696, AA132947, AA748071, AW057760, AI732563, AA180056, AW265468, AW272815, AI174703, AI285651, AI049999, AI473671, AI250552, AW072963, AI254508, AA664963, AI251284, AI251203, AA564256, N70293, AA729004, AI251034, AI310670, AW409626, AI523205, C14614, AA814719, AA133568, AA598608, AI679486, AI869797, AI284543, AA599712, AA995373, AI224583, AA814503, AA639155, AI088903, AW273201, AW273146, AA425283, T03928, AW303098, AI308529, AA584484, AA503018, AA157876, AW086291, AI690379, AW020094, AW410844, N27340, AA324108, AI254770, AW409621, AA648605, AW069273, AI254267, U85195, AE000658, AC004263, Z99291, AP000510, AC002312, AC005837, AL009181, AC004587, AL109827, AL034420, AL139054, AF196779, AC005154, AL031293, AC002477, AC007384, AC004196, AB023048, AC006162, Z98036, AC006011, AC005740, AC002302, AC009516, AC005215, AL133163, AC005228, Z98051, AC007216, AC003029, AL133448, AC004973, AL121652, AL031311, AL135744, AC005041, L44140, AP000133, AP000211, AC002430, AL034549, AC005355, AC002314, AC004634, AC005829, Z95114, AC007240, AL022165, AC005913, AC002996, AL008582, AC005067, AL022334, AL109952, Z84469, AC004522, AL049569, AL035086, AF196969, AC006285, AC005225, AL035587, AC005409, AL031427, AC004148, AC004876, AC005839, AC003665, AC004929, AP000355, AC010205, AL096791, AC005330, AC004812, AP000252, AC005231, U47924, AC004887, AL034421, AC005257, AP000356,

					Z86090, Z98742, AC006449, AL022316, D87675, AC002350, AC007226, AF109907, AC009247, AL031281, AP000008, AP000031, Z97630, AC007227, AP000691, AC002310, AC005202, Z85986, AL109628, AL022313, AP000503, AC016025, AC002369, U80017, AP000359, AL022336, AL096702, AC005911, AC003682, Y18000, AL049830, AC003982, AC000355, AC000379, AC005081, AC005015, Z98941, AL050317, AL096774, AC006013, X69907, AL135879, AL121790, AL096701, AC007011, AP000065, U52111, AC006057, AC004106, Z85987, Z94865, AC012330, AF165926, AC004874, AC004755, AC006241, AC009399, AC006538, AF205588, U78027, AC004765, AC004668, U95742, AC004520, Z96074, AL132992, AL022238, AP000248, AC004771, AC002544, AC008018, AC005722, AC005546, AL034429, L78833, AC004859, AC005049, AL035659, AL035684, AC004491, AP000257, AC004835, AL031680, AC004922, AL021918, AC004881, AC004686, AC006479, AL246003, M89651, AL049757, AC005519, AC005527, AC003112, AC002425, AC002306, AP000704, AC005500, AC005779, Z93930, AL031276, AP000553, AL035422, AC004019, AC004815, AC007066, AC005377, AC004253, AC006121, AC002126, AC004647, AC005914, AC004584, AC004804, AP000152, Z95703, Z83844, AF196971, AC005800, AC006441, AC005058, AC008008, AC006084, AC005670, AF111169, AC004033, AC007731, AC004975, AC005730, AF129756, AC004386, AF134726, Z95115, AC003110, AC005726, AC000052, AL009172, AL022323, AC003010, AC005288, AC004858, AC005932, AC008044, AL020993, AC003101, AL080243, AP000511, Z69890, Z93017, AC007546, AC007934, AL031666, AP000689, AC007151, AC007298, Z99128, AC005821, AC005666, AC007421, AC002377, AC006581, AB025285, AL021406, AL121603, AL049697, and AL031584.
HCWDX65	1018	920877	1 - 340	15 - 354	AL031296.
HCWDX76	1019	932614	1 - 226	15 - 240	AA081685.
HCWDX85	1020	861933	1 - 330	15 - 344	T27308, and AA187085.
HCWDY47	1021	573557	1 - 303	15 - 317	
HCWDZ13	1022	657398	1 - 383	15 - 397	
HCWDZ89	1023	576697	1 - 203	15 - 217	
HCWEA30	1024	681277	1 - 396	15 - 410	AL079734, AA581247, AA452887, AL912401, AA614163, AA182731, AA559241, AW151247, AA084609, H53217, N72170, AA228349, AL146750, AW188742, F00564, AL048275, AL038842, R95840, H66577, AA713705, AA470567, AL251429, H60249, N33611, T74524, AL289505, AL635440, AA654874, AA581471, AW237905, AL742168, AA228338, AA297666, AW008169, AA181917, AL249688, AA666295, AA601674, AA502991, AA481887, AA326034, AA570255, H63660, AL109827, AC007546, M37468, U47924, AC004230, AL109758, AC007226, AC004813, AC005379, AC004217, U91326, AC004150, AC006538, AC005924, AC005746, AC005212, AC004841, AC005399, U96629, AC009263, AC005332, AF003626, AC008072, AC007285, AL049643, AC005911, AP000502, AL135744, AC005288, AC004876, AL035697, AL136295, AF030453, AL109963, AF196779, AP000065, AC007277, AC004878, Z83822, AC005067,

HCWEA65	1025	849918	1 - 214	15 - 228	AF196969, AL109984, AF134726, AC005088, AB023049, AC005488, AC010582, AL034429, AC003037, AL133448, AC006071, AC004638, AC005952, AC004686, AC005412, AC003036, AC004913, AP000245, AF165926, AL024498, AC007308, AC003963, AL050308, AC005587, AC004895, AC005004, AC006543, AC004890, AC006480, AL080243, AL031774, AC004787, AB017602, AL079342, AF129756, AC002300, AC002347, AC002996, AC005844, AC006441, AL030996, AC005670, AL035072, Z82243, AC005105, AC003962, AP000512, AC006530, AC005386, AL035422, AF031078, AC005913, AL035455, AC000111, L44140, Y14768, AF030876, AL031584, AC004448, Z82214, AC004491, AC006544, AL031680, AC007664, AC005529, AC007774, AC005484, AP000505, AC002476, AC005914, AC004079, AC005377, U91321, AC002470, AC002120, U78027, AC002994, AC006001, AL050341, AF088219, AC005015, AL139054, AL049838, AC006512, AC004475, AC002301, AL035457, AP000359, Y07848, AL008718, AP000699, AL021453, AC005562, AL133485, AC004019, AL109627, AL021707, AL035415, AL078638, AL049869, AC004760, AL121603, AC005619, AC007151, AC005796, AC004030, AL049872, AL022320, AC007240, D87009, AC005666, AL035249, AL035683, AC002350, AP000045, AP000113, AC007055, AC004967, AC006241, AC004675, X68793, AP000553, AC006271, AC010077, AL050332, Z83844, AC005480, Z98200, AC004263, AC005102, AC007386, AL034549, AP000694, AC007227, AC004859, AL023581, U95742, AC004854, AP000466, Z93244, AC005527, AC006064, AC000052, Z96243, AC005358, AC006254, AC002563, AC006132, AC005932, AL035658, AC002352, AC007999, AC009516, AL078581, AL035587, AL022318, Z98048, AF104455, AC002314, AC020663, AC004821, AF196970, AC005632, Z83840, AL049780, AC007216, AC004893, AC002126, AC006080, AL109799, AC004703, AC003110, and AC005954.
HCWEA65	1025	849918	1 - 214	15 - 228	AC009405.
HCWEA77	1026	666180	1 - 359	15 - 373	
HCWEA78	1027	697596	1 - 295	15 - 309	
HCWEA82	1028	719028	1 - 356	15 - 370	AC006026.
HCWEA84	1029	506718	1 - 331	15 - 345	
HCWEA86	1030	574858	1 - 339	15 - 353	
HCWEB11	1031	975408	1 - 65	15 - 79	
HCWEB25	1032	925102	1 - 389	15 - 403	
HCWEB28	1033	932114	1 - 341	15 - 355	AL139054, AC004408, AL031427, AC006285, and AL078581.
HCWEB33	1034	925286	1 - 352	15 - 366	
HCWEB37	1035	849854	1 - 411	15 - 425	
HCWEB40	1036	514584	1 - 488	15 - 502	AL046409, AL079645, AL732151, AL1754955, AL587583, AL061313, AL120343, AL431303, AL755214, AL754567, AA651639, AW265385, AL244127, AL754105, AW069227, AL254779, AL044858, AA574442, AA284247, AL754653, AW020088, AL042635, AW301350, AW303196, AL919265, AL281881, AA527602, AW162288, H07953, H05940, AW275432, AW274349.

AI590906, AI799642, AI188390, AI311647, AI053784, AW328331, AL040054, AW023111, AI679782, AA833875, AA833896, AI732764, AW327624, AI792529, AA644090, AI587565, AW157005, F13749, AL119838, AI696793, AA581903, F35374, AA600202, AI358089, AW162049, AW073470, AI929531, AI054193, AA657835, AA676592, AI885488, AL042856, AI654247, AW020992, AW069783, AI028510, AW004911, AW068996, AA829036, AI926728, AI912401, AA501784, AA533042, AW029038, T74524, AI821486, AI537020, AI216998, AI064864, AL138455, AI754023, AW304805, AA992126, AI821814, AA610509, AA226584, AA846935, T50676, AL042373, AW270385, F27015, AA773463, AA809546, AW410354, AA492495, AI339850, AI368745, AI801505, AW088202, AW328446, AC005256, AL049869, Z95115, AC007774, U29953, AC004531, AC005089, AC007487, AC007687, AL035587, AC005037, AC006511, Z85986, AL096791, AL022328, AC012627, AC005207, AF050154, AC006001, AC004883, AC005921, AC005856, AL022329, AC007204, AC002369, AC005377, Z98941, AC005399, AL022165, AL022476, AC002377, AC005971, AC005726, AC004590, U91325, Z98743, AC006251, AC007536, Z84480, Z98200, Z99943, AC007030, AL022313, AC005095, AC008115, AF015156, AC007676, AL096701, AC005581, AL023575, AC007227, U78027, Z95152, AC004859, AC007216, AC006449, AL035422, AC004797, AC005695, AL049636, AC003070, AC002425, U96629, AC005224, AC004455, AL049643, AF075098, AP000116, AC005184, AC005701, AC005378, AC005529, AC006088, AC003043, AC005619, AC005368, AC006026, Z99716, AL022238, AC005081, AC004821, AL031447, AC005261, Z84469, AL136295, AC006023, AC022517, AC007435, AL079340, AL008730, AL049697, AC005722, AC004832, Z82182, AC005520, AJ006996, AL049539, AC003108, AL133246, U95742, AC005180, AC005943, AC004770, AL034371, AC004685, Z97056, AC006121, AP000065, AC005592, AP000210, AP000132, AL031282, AP000350, AC004596, AL024509, AL117694, AC004099, AC004098, AL034548, AL024474, AC007688, AF015151, AC004263, AC005972, AL008635, AC005800, AC007277, AC004999, AP000248, AF064861, AP000694, AL008726, AC009516, AC005209, AP000466, Y14768, AL049776, AC006241, AC005808, Z84487, AL021397, AF196779, AF053356, Z82244, AF207550, AP000503, AC004559, AC000353, AC005332, AC006120, AL031650, AC002119, AC004638, AL050318, AL109627, AP000505, AP000359, AP000553, AC006512, AC005057, AC005736, U85195, AC006509, AC006077, Z98742, AF134736, AL132796, AL049766, AC005519, AC005360, AC006277, AC005015, AC006071, AL009181, AC005901, U47924, Z98883, AP000086, AP000496, U41384, AL133243, AL022323, AL078634, AC002314, Y18000, U62293, AC004253, AC004887, AL022326, AC002400, AC006273, AE000658, AL049576, AL031003, AP000008, AP000114, AP000046, AC005291, AC004858, AC000026, AL121603, AC006312, AF146191, AL050321, AP000152, AC005031, AP000555, AF190465, AC004765, AC006064, AL050307, AP000356, AC006530, AC006952, AL049650, Z93241, AF196969, AC005179, AL121658, U18399, AC002059, AC002563, AC006230, AC006372, AL031685, AC004106, AC002553, AC003982,					
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HCWEB56	1037	527051	1 - 534	15 - 548	AC007136, AL121748, and AL031279.
HCWEB71	1038	573147	1 - 423	15 - 437	AW362435.
HCWED11	1039	948689	1 - 429	15 - 443	AA724231, AW021007, AA278496, A1624379, A1439676, AA565911, AA837771, W63553, AL041613, AA569734, T03928, AW242279, T40210, AA354507, A1624234, AA864815, AL119563, AA740736, AA493784, A1459866, A1018726, AA507990, AA557945, F29968, AC010202, AL049553, AL031279, AC004104, AL034553, AL117694, AC007011, AL109627, AL096712, Z95152, AC006312, AL031283, Z93241, AC005243, AL031674, Z82215, AL096775, U24498, L39891, AL035681, AL035405, AL035683, AC005256, AC006146, Z85996, Z82179, AC005747, AC003950, AL031846, AC005821, AL135783, AC008041, AL070342, AC002430, AC003692, AC005519, AF196969, AC001644, AL021937, AC007510, AC004816, AC005358, AC002316, Z99774, U91323, AC007384, AC000025, AF139813, AC005089, AC002375, AC002978, AL049759, AL023807, AL035249, AC004228, Z95115, AF196971, AC004084, AC005696, AL034384, AC002395, Z82194, AC005632, Z83844, AP000355, AC002073, AP000359, AC005529, AC005919, AC005624, AC005600, AC004491, AL009181, AC006343, AC010205, AL031848, AC004961, AC005578, AC004953, D88268, AF001552, AL034429, AC002094, AC004552, AL049743, AC004889, Z97056, AC005940, AC008119, AL031666, Z82182, AL078463, AL050318, AC005156, AL021940, AC004687, AR036572, U91328, Z84484, AC005565, AC005244, AC005793, AC004125, AC007371, AC007057, AL049872, U52112, AF109907, AC004799, AP000346, AL022721, AF035397, AF003627, AC005509, AC006441, AL031228, AC005379, AC004025, AC005335, AC007537, AC003010, AL008583, AL109956, U82696, AC005332, AL031985, U12387, AC005841, U95740, U30518, AL031729, AF037338, U95743, AC004771, AL109657, AC012384, AC006316, AC009336, AP000501, AL133500, AP001063, AC004770, AC005538, Z85987, AC006486, and Z82190.
HCWED13	1040	573413	1 - 450	15 - 464	
HCWED61	1041	971865	1 - 469	15 - 483	AA95856, A1672210, T99719, AW148336, A1791144, AW440956, AW439999, AA907133, T05187, A1000677, A1678727, AA586390, AA767864, AA285156, H52303, AA018440, A1660071, A1270092, H91317, AA490072, A1798234, AC004876, AP000302, AL024498, AC005525, AL031280, AC003964, AP000046, AP000114, Z93241, AC005585, Z85997, AC007050, AF196970, AC000072, AF121781, AC006238, L77569, AC002302, AL050402, AC004623, AC005609, AF059321, AC007371, L13972, AC002563, AL022336, AL023878, AC005182, AP000501, AL034408, AC005067, AL050309, AC005358, AL035249, AC004703, AC006137, AF155238, AC007406, AC007955, AL133500, AC006270, AC005015, and AC004230.
HCWEE02	1042	920544	1 - 254	15 - 268	
HCWEE03	1043	924743	1 - 536	15 - 550	AA960780, and AC004542.
HCWEE07	1044	953731	1 - 398	15 - 412	

HCWEE22	1045	572960	1 - 338	15 - 352	
HCWEE74	1046	738264	1 - 305	15 - 319	
HCWEE76	1047	770169	1 - 277	15 - 291	
HCWEE83	1048	781302	1 - 213	15 - 227	
HCWEEF56	1049	573570	1 - 449	15 - 463	
HCWEEF91	1050	849019	1 - 281	15 - 295	
HCWEEF92	1051	573568	1 - 350	15 - 364	
HCWEEF95	1052	526766	1 - 422	15 - 436	
HCWEEG09	1053	523251	1 - 329	15 - 343	
HCWEEG23	1054	531421	1 - 395	15 - 409	
HCWEEG31	1055	693687	1 - 400	15 - 414	
HCWEEG47	1056	574191	1 - 355	15 - 369	
HCWEEG51	1057	964642	1 - 290	15 - 304	
HCWEEG69	1058	948693	1 - 234	15 - 248	
HCWEEG70	1059	881254	1 - 431	15 - 445	
					AP000323, AP000053, AP000121, and AP000168.
					AI828787, AC004983, AC004967, and AC006101.
					H30197, H79077, R79607, R81361, W15301, AI141202, AA176978, R18372, AA570224, R02744, AW029277, AA579368, AA492524, AA493628, R94876, AA831826, H72049, H73336, AW11723, AW117704, AI652371, AI312527, AC005940, AL022323, AC004912, AL117354, AC006139, AC009028, AC008009, AP000514, AC004638, AF001548, AP000701, AC004687, J00081, AC004854, AC000046, AC007014, AC007182, and AL035691.
HCWEG86	1060	572980	1 - 357	15 - 371	
HCWEH27	1061	527050	1 - 391	15 - 405	AF077000.
HCWEH53	1062	967056	1 - 429	15 - 443	
HCWEH76	1063	574187	1 - 319	15 - 333	AA808851, AA650159, and AA654653.
HCWEH93	1064	933146	1 - 314	15 - 328	
HCWEH94	1065	667919	1 - 744	15 - 758	AI733856, AW069227, AA410788, AW340905, AI625604, AW021917, AW068596, AA916430, AI687343, AA574442, AA847704, AW328331, AI890324, AA643770, AI963720, AA833875, AA833896, AW237905, AW117740, AI669589, AW084445, AA610509, AI634187, AA669155, AL079734, AL046409, AA502991, AI679759, AI061313, AI753488, AI926728, AL079645, AA468505, AA535216, AW328000, AI345681, AW023111, AA847499, AA579179, AI345675, AI284640, AW029515, AL040374, AI457313, AA719073, AI817230, AI583142, AW438542, AL040054, AI040051, AW303196, AI590442, AA644090, AW021583, AI613280, AW069769, AA904211, AA702637, AI431303, AA602906, AW301350, AI345695, AI254779, AI732483, AI282479, AA297145, AA630854, AA714011, AW193265, AA228778, AW419262, AI587583, AI587565, AL135377, AI753113, AW327868, AL138455, AA224889, AL119691, AA665330, AI270117, AA455483, AA127426, AI247101, AL037632, AI923050, AI566408, AW023672, AI613389, AA904275, AI679294, AI891080, AL138265, AI267356, AI859438, AI732865.

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HCWEI19	1066	948690	1 - 297	15 - 311	
HCWEI30	1067	666625	1 - 259	15 - 273	
HCWEI43	1068	573508	1 - 409	15 - 423	AC004950.
HCWEI45	1069	576852	1 - 110	15 - 124	
HCWEI78	1070	861918	1 - 338	15 - 352	
HCWEI80	1071	573534	1 - 207	15 - 221	
HCWEI83	1072	529351	1 - 287	15 - 301	AP000556, and AP000557.
HCWEI91	1073	529650	1 - 516	15 - 530	
HCWEI02	1074	920488	1 - 449	15 - 463	
HCWEI08	1075	959734	1 - 424	15 - 438	
HCWEI22	1076	954137	1 - 490	15 - 504	
HCWEI26	1077	576717	1 - 377	15 - 391	AA065131, AW008791, AW009265, AI805884, and AA065200.
HCWEI43	1078	573526	1 - 319	15 - 333	
HCWEI69	1079	757674	1 - 244	15 - 258	AI479011, and AI538122.
HCWEI91	1080	572857	1 - 434	15 - 448	
HCWEK59	1081	855734	1 - 331	15 - 345	
HCWEK74	1082	573134	1 - 542	15 - 556	AA601043, AA069366, AC007685, AC007284, AC004491, and AC007510.
HCWEK80	1083	574157	1 - 442	15 - 456	AP001052, and AP001053.
HCWEK84	1084	572843	1 - 241	15 - 255	AA630672, AI818231, AW303008, AA780682, AA732253, AW103927, H25921, AA092310, H51061, AA345064, AA768389, AI254980, AA588001, AA629872, N74747, C15060, H12383, AA551181, AA370455, AI344995, H93097, AA380354, AL133909, AW341978, AL138182, AA570797, AA722225, AI870197, AA372346, AA568198, AW022655, AL047429, AI014843, AI923052, AA705687, AA037715, F01503, AA531580, AI590485, AI311519, AI537772, AA583466, AI439828, AA630535, AI002744, AL045808, AL046156, AA584125, N71685, AA282820, AI205010, AA491681, AI888261, AA338544, AI278972, AI537538, F13749, AI907530, AW081296, AL038498, AI923333, AA593375, H18298, AW151022, AA483108, AA502991, R65651, AL037052, AI499301, AW162288, AW196053, AI636730, AA298319, AW021627, AI349849, AA308716, AA330772, AW276396, AW078909, AW131272, AI251576, AA838227, AA903253, AA573131, AI056046, AA092571, AA037725, AA515457, AA575911, H40324, AW317027, AI366993, T71474, AI124933, AA613761, W01639, AI289941, AI289942, AI955697, AI494539, AA626432, T77680, AI249473, AA716211, AA702098, AW104793, H81840, AI889566, AL135576, C18550, AI298061, AL096817, AC005019, AP000013, AC005752, AC007308, AC004910, D86992, D88270, AL109628, AC004797, U85195, AE000658, U95740, AC004051, AC000070, AC002288, AL109798, AC003104, AB023049, AP000512, AC011311, AC003101, AL133246, AC008169, AF107885, AC004933, AC006080, U40401, AC004674, AC005694, AP000505, AC004070, AC004596, AC003087, AC005207, AL023883,

HCWEK89	1085	861914	1 - 245	15 - 259	AL023281, AC005250, AC007842, Z98050, Z99716, Y18000, AL031670, AP000245, AB020870, AC008082, AL132985, D87675, AF109907, AC006211, AC004620, AC004911, AL031391, AC003977, AC002395, AL021877, AC005066, AL133312, AL022722, AP000253, AC005039, AC006070, AP000959, Z95116, AC005529, AC009509, AL031985, AL031289, Z82194, AC004855, AC006441, AP000553, AL080317, AC004216, AL035086, AC004526, AC003950, AL031283, AF020503, AC007253, AC004548, AC006116, AC005048, AF003626, AC004655, AC004595, Z97352, AC003664, AC007536, AC009411, AP000213, AC005730, AP000135, AP000155, U91325, AC004812, AL049647, U52112, Z83840, AC000004, AC004875, AC006322, AL109807, AC005324, AC004887, AP000031, AC002299, AC005874, AF134471, AC004985, AL009181, AC005037, AC004817, AL096794, AL049832, AC005500, AL049649, AC002526, AC004741, AL031286, AL031056, AL121603, AC006112, AC007406, AC004517, AC007688, AL049760, AF196972, AC005288, AF196779, AL035530, AL035467, AC012384, Z95152, AC002377, AL078583, AC004929, AC004033, AC005702, AC000389, AC003108, AL121653, AC007559, U82668, Z85996, AC005543, AC005578, AC010209, AC006930, AC006559, AC002563, AL031589, AC002041, AC004856, AC004815, AF088219, Z98946, AL034402, AC004455, AC008126, Z85987, AP000547, Z83844, AL034379, Z93016, AL021368, AL122023, AC003687, AF001549, AC005777, AL035398, AC006285, AC005234, AL035400, Z86061, AF205588, AP000036, AL079342, AC004858, AL078638, AC006313, AC006132, AL109801, AC004699, AL021978, AC006958, AC004622, AC000105, AF051976, AC002115, AL031259, Z84480, AL022326, AC002464, AC004087, AL034343, AC003682, AC007227, AL022323, AC000119, AC008039, AC004032, AL049856, AC005295, AP000244, AC008273, AC005043, AC000111, AC005412, AP000459, AL109613, AC003684, and AL022315.
HCWEK89	1085	861914	1 - 245	15 - 259	
HCWEL01	1086	916972	1 - 236	15 - 250	
HCWEL08	1087	881309	1 - 142	15 - 156	
HCWEL18	1088	827387	1 - 265	15 - 279	
HCWEL27	1089	572846	1 - 244	15 - 258	AC005399.
HCWEL47	1090	523304	1 - 545	15 - 559	
HCWEL52	1091	577417	1 - 449	15 - 463	
HCWEL55	1092	572951	1 - 310	15 - 324	AA694257, and N64736.
HCWEL96	1093	529223	1 - 328	15 - 342	AC004674.
HCWEM10	1094	968044	1 - 312	15 - 326	
HCWEM37	1095	573151	1 - 404	15 - 418	
HCWEM51	1096	920887	1 - 378	15 - 392	
HCWEN20	1097	529237	1 - 330	15 - 344	
HCWEN86	1098	573527	1 - 344	15 - 358	

HCWEP18	1099	913670	1 - 401	15 - 415	AW291681.
HCWEP34	1100	523238	1 - 436	15 - 450	
HCWEP39	1101	660232	1 - 459	15 - 473	
HCWEP40	1102	506759	1 - 278	15 - 292	F00112, K00650, AF111167, AC006064, AC007055, AC006312, AC004777, AC004477, AP000023, AC005331, AL078472, AC004814, AC002347, AC007064, Z98048, AL034417, AL024507, AL024498, AC006548, AC004050, AC004934, AC005182, AC002546, AC002420, AC007790, AC006381, Z83840, AC005071, AF047825, AC005822, AC012627, Z82201, AC005944, AC005914, AL031005, Z84484, AL096791, AL031295, and AC006511.
HCWEP43	1103	921346	1 - 412	15 - 426	
HCWEQ01	1104	861910	1 - 288	15 - 302	
HCWEQ14	1105	908245	1 - 355	15 - 369	R16298, A4488261, R15246, AA325932, F08114, W46162, H08289, U69190, R12912, and AC002985.
HCWEQ15	1106	660520	1 - 285	15 - 299	AA583955, AA526342, AA810078, AA219115, AA714453, A1872020, AA661921, AA610491, AA775207, AA503600, R40056, F04987, A1243584, AA316905, A1963720, AA877817, AW080134, AA782304, F18423, AA491284, AA601492, AA362698, A1696962, A1561060, AA531079, A1251436, A1061334, AW070892, AA847499, AA491814, AA664909, AA581903, AA478355, AA259186, A1686267, AA808877, A1305766, AW270343, A119691, A1344844, AA501821, AA515231, AA828042, AA525824, R94721, AA468131, F18638, AA737150, A1247264, A1476312, F01314, AA364224, AA502720, AA634889, A1307608, AA533303, AW084252, AA715355, AW084198, T41259, AW196064, A1889923, AW276817, AA644551, AW265385, AW075511, AA935988, A1589230, A1821271, A1358343, AW265009, AA522642, AA372852, F23430, A1364809, AL038072, F19012, A1049634, A1247199, AW082492, AA623002, A1283911, AA320714, T74382, AA362348, AA653375, AA521323, AA834727, AA805815, AA521399, A1284640, AA343705, AW300625, AA362511, AA635067, A1623720, AA715255, AA715267, AA650376, AA078441, AW248819, AA934680, AA848134, AA749054, AA459749, A1635818, AA508034, AA502104, A1358431, AA662871, AA515549, A1708009, AA503154, AA604333, AA603185, F16127, F00440, AW089682, F17802, AA773902, AA604897, AA281461, A1702314, AA720746, AA320113, A1160117, A1064952, T07019, AW002350, A1270002, A1754336, AA678436, AW071163, AW023990, AL044940, AA493708, A1783494, AA532524, AA338486, AA773733, AA531186, AA513141, A1537944, AA559290, AA531372, AA493206, F00135, AA713626, AA502866, AA346458, AA503284, A1298710, A1245679, AA985455, TS2733, AA478297, A1254316, AW274349, A1561255, AL079511, AA847012, A1469624, AA503119, AA664332, F16274, T06828, AW405114, A1860020, AA629992, AA533725, AA482711, A1246119, A1459768, A1151261, Z30073, H93893, A110688, AW327868, AA394271, AA688036, H60639, AA074130, A1583283, F17555, AW150524, N62433, AA372481, AW075948, AA502963, AA514854, A1358236, A1355206, A1679045, A1859251, AA491862, N35602, AA594145, H63262, AA908468, A1890348, AL045053, AP001172, AL022322,

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HCWEQ27	1107	849860	1 - 406	15 - 420	
HCWEQ37	1108	849985	1 - 389	15 - 403	Z85996.
HCWEQ89	1109	529240	1 - 344	15 - 358	
HCWER22	1110	674807	1 - 214	15 - 228	T83652, N52834, AA010013, H32946, H64159, and AA703454.
HCWER37	1111	849916	1 - 368	15 - 382	
HCWER61	1112	574921	1 - 89	15 - 103	

HCWER81	1113	574167	1 - 454	15 - 468	M78067, and AL031733.
HCWES03	1114	921933	1 - 540	15 - 554	D87470.
HCWES06	1115	935862	1 - 135	15 - 149	
HCWEW45	1116	571355	1 - 193	15 - 207	AL862242.
HCWEW76	1117	861966	1 - 358	15 - 372	AA420421, AA420839, AW340887, T68865, AA706567, AA838190, AA363078, AA533315, AA484373, AA161177, AA161132, AA780541, AA338170, R54486, A1567402, C16659, AA356567, AA745507, AA487198, AA372887, T70121, A1914883, N74208, A1568683, AA934825, AW050400, AW328172, AW082559, A1758256, AA581099, AA648683, T52935, AA604048, F12561, AA365815, AA501614, A1291317, AW270784, A1524360, AA837560, AW328050, H67805, AW328171, T47324, AW440837, AA071173, AA600741, AW083678, AA586866, AA320748, F01979, AW269488, A1053445, F28108, A1002744, AW081610, F08248, T65635, AA229127, AA744172, C15363, AA577732, A1827234, AA071132, AA744278, AL050332, AC005274, AC006101, AP000688, AF121782, AC000080, Z84469, AL021917, AP000044, AB003151, AP000691, AC006040, AC008282, AP000330, AP000295, AP000112, AC006572, AC006946, Z82899, AC001231, AC009405, AC005663, AF001552, AC005822, AP000171, AP000056, AC002300, U85195, D42052, AC004491, AC002425, Z84466, AE000658, AC005913, AC005253, AC001643, AC005387, AP000124, AL109653, AF109907, AC008981, AC006021, AC002565, AC002461, AC007350, AC006139, AC006486, Z98950, AC005393, AC006568, AF064861, AL133241, AC006305, AC005081, L31675, AL050338, AL096705, AL049569, AL035652, D26141, AC005358, Z81364, Z97196, AL034411, AC004132, AL009179, AL009031, AC002326, AC004993, AL135746, AC004617, AL135744, AC006006, AC007786, AC007766, AP000959, AC004197, AC005944, AC006557, U89387, AC005015, AL031846, AC007096, AC002098, U71148, AC003678, AL008636, AC002483, AL035460, AC003689, AL035690, AC004953, AC006146, AF207550, AC004472, AC005902, AF064857, AC004878, AC004448, AC003101, Z84480, Z96074, AC005839, AC005660, AL031589, AL096769, AP000953, AP000160, AP000128, AP000206, AC002066, AP000245, Z83820, AL008718, AJ133269, AC007298, Z68226, AC005512, AL096791, AC002110, AC004531, AB023048, AC005945, AP000511, AL035588, AC005011, AL035089, AP000687, K03021, AC010077, AL022476, AC002379, AP000126, AP000204, Z84487, AC005684, AC004859, AL132712, AC005412, AB017568, Z83840, AP000244, Z97832, AC005632, AC002347, AC006132, AF001551, Z93930, AL008730, AC005754, AC005484, AL021937, AL139054, AC005406, U50871, AC008545, AC004601, AC005089, AL021997, AC004151, AB020864, AL109627, AC006966, AC005548, Z95152, AC005082, AC006254, AC004383, AC005049, AL034429, AL050401, AP000884, U95742, AL031733, X90725, Z80897, AC003110, AL008719, J03071, AC006252, AC002550, AC005868, AP000152, AP000010, AL034423, AC006253, AC008062, AC009743, AC007262, AL022165, AC003081, AF047825, M63796, AC006023, AC006013, Z95113, AC007151, AC005486, AC004596, AL031681, AL031668, AC010206, Z69890.

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HCWEW77	1118	664922	1 - 416	15 - 430	AL020995.
HCWEX05	1119	928121	1 - 326	15 - 340	N87989.
HCWEX40	1120	574940	1 - 251	15 - 265	
HCWEX59	1121	709560	1 - 344	15 - 358	T56067, AA652057, AW248803, AA664148, AW249224, AA369477, AL138242, AA569187, AA584581, AA125788, AA828704, AI079667, AA834755, AA594725, AI168185, AW193500, AA179136, AA443390, F07193, AA516527, AL133723, AA365347, AA012897, H00934, F37169, T62975, AA503947, AA515346, AW406162, AA650271, AI889781, AI648558, AA502103, AA906889, N53150, AA904140, AA515435, AI678392, AA831388, AA364315, AA483223, AI801591, X06123, AC002350, X61109, AC007193, Z83845, AC005913, AP000967, AL022329, AF200465, AC006285, AC005215, AC005565, AC005537, L81693, Z83826, U78027, AC005071, AC007666, AC003035, Z82188, AC004973, AC006965, AC006006, AL035422, AL035695, AC005385, AC005962, AC006312, AC005365, AC005003, AC005324, AC006600, AC000052, AL034420, AF165926, AC005736, AF109907, AP000362, AP000553, AI000010, AP000152, AL132712, AP000555, AC004019, AC002472, AC000159, AL121603, AC007565, AP000348, AC006571, AB016897, AP000354, AC003038, AC005755, AL035690, AC002077, L48038, AC004263, AC000353, AL080317, AL031589, AL008582, AR036572, U91328, AB023049, AC002483, AF006501, AL133396, AL022721, Z99716, AL035494, X03272, AL022476, AC004797, AL049776, AL022323, AF196779, AP000692, AL035089, AC004909, AC005740, AC002312, AC006211, AL021453, Z98200, AL031447, AC005822, Z97184, Z73360, AC002349, AC002301, AL139054, AL009178, AC007115, AL035460, AL035417, AL035681, U62293, AC004813, Z82244, AL023553, AL050332, AC004865, AI080243, AC000039, AL022328, Z98946, AC007999, AF134726, AC020663, AL009179, AC007664, AL022313, AC002448, Z69705, AL109963, AF019413, AC006130, AI003147, AL049780, AC006039, AC005043, AL031257, AC005211, AC005057, AL135744, AC005200, Y07848, AC005516, AC006538, AC006530, AP000162, AP000020, AP000087, AC005670, AL021366, AC005783, AC005911, AL023879, AC005212, AC004622, Z69651, AC007308, AC009516, AF111168, AC004754, AC005235, AC005304, AL035072, AC005527, AL050338, AC003085, AC005730, AC007842, Z83822, AC005281, AC007285, Z98048, AC007182, AC005081, AL133245, AL023807, AC008079, AL031685, AL050318, AL031446, AC004099, AC005041, AC005940, AL031668, AC005776, AP000557, Z97056, AC006441, AP000512, AL096829, AC002070, AP000030, AP000151, AP000226, AC005754, AC000026, AL022311, AC002402, AC016025, AC005544, AC007543, AF121781, AC007011, AC005274, AL008715, AC004890, AF091512, Z86090, AL031666, AL035692, AL008718, AC007537, AC007324, AC012384, AC006515, AL035659, AP000047, AC005829, L76568, Z98742, AC006057, Z85986, Z83844, AC005969, AL132777, AC002470, AP000173, AP000500, AL034548, AP000502, AC004463, AC018633, AC006946,

						Z73359, AL049856, AC002059, AC004856, AC005069, AF000359, AC004638, AC004858, AC002067, AL049757, and AC004033.
HCWEX66	1122	731772	1 - 323		15 - 337	
HCWEY07	1123	953701	1 - 412		15 - 426	
HCWEY33	1124	702597	1 - 418		15 - 432	
HCWEY34	1125	954142	1 - 233		15 - 247	AC005911.
HCWEY84	1126	952692	1 - 458		15 - 472	AA598892, AA508036, AA525293, AA984829, A1918419, AA126277, AA172365, R22248, A1272052, AA360260, T94592, AL096701, AF196969, AF196779, AL031597, AL034417, AD000092, AL049757, AC006449, AF030453, AC002312, AC005088, AC002395, AC004150, AC005089, AC004216, AL031053, AF053356, AC006487, Z98051, AC005049, Z83851, AF109907, AP000555, AC006480, AL021578, AC006211, AC005081, AL031311, AC004382, AC006312, AC007308, AC005005, AL023553, AL049829, AL049631, AL121652, AL109801, Z95114, U85195, Z83826, AC007450, AC000134, AC004858, AC004841, AE000658, AL021920, AC005920, AC005067, AC007226, AC005702, AF111168, AC002546, AC002477, AL117344, AC004134, AC005184, AF001549, AC000070, D87675, AP000553, AC005632, AC006511, AC004019, AL133243, AL050321, AL121769, AC004797, AC005778, AC007999, AC005808, A1229041, AC007193, AL023653, U95742, Z82203, AC007371, AC006111, AC000353, AL035422, AL009181, AC006360, AC005839, AC005480, Z95152, Z94056, AC005399, AL021394, AP000512, AC005015, AF017104, AL020997, AL121578, AF003626, Z86090, AC005914, I178027, AL050341, AC005609, and AL022238.
HCWEY88	1127	785508	1 - 321		15 - 335	H44471, A1246061, AA161305, AA224525, AA555143, AA664248, AW270429, A1860535, AW270351, A1223626, AA135868, AW019964, A1054090, A1278972, AA565911, F32248, A1284543, A1254770, A1251944, H09639, A1251034, A1251203, A1251284, A1250552, A1251241, A1249853, AW265149, W32993, AW151870, AW058430, A1053934, W63553, A1053597, AA862312, T03928, AA487209, AW303098, C15504, AA340153, C14796, AA832152, H47368, C14627, Z95116, AC010206, AC005913, AF118808, AC005844, AC004662, AC006360, AC006313, AC004465, AL034400, AC004815, AC002365, AC004984, AL034549, AC007676, Z95118, AC008009, AL009181, AC005565, AC002465, AC005841, AC006388, AL031665, AL033397, AC007276, AC007028, AC008041, AC005746, AC002312, AF196969, AC004799, AL135746, Z97630, AL050318, AC005291, AC005288, AC005207, AC002369, Z94801, AC006121, AC002425, AF129756, AC003959, D88270, AL022162, Z94056, AC005237, AC005519, AC006352, AC002041, AL049745, AC005856, AC005041, AC005666, AC006130, AC005632, AL096701, AC004963, AC005015, AC005488, Z93017, AC009946, AC006359, AC005740, AC006241, AC004813, AC007263, AP000555, AL034418, AL117354, AC002287, AC005736, AC008044, L29766, AL080242, Z83843, AL035683, AL021878, AC005696, AL049539, AL121825, AC004150, AC004941, AC004895, AL023284, AC004185, AP000475, AC004686, AL031651, AC004033, AJ011930, Z98950, AL035405, AL021807, AC004386,

HCWFA14	1128	925301	1 - 479	15 - 493	AC002456, AL022324, Z81364, U95740, AC003962, AL022323, AC005049, AC004804, U91323, AC007671, AC005251, Z98742, AL139054, AC005476, AL035423, AC006487, AP000502, AC003957, Z95331, AL022334, AC005776, AL049869, AC002477, AC007066, AL078581, AC007114, AF222685, AL031848, AL021937, U48697, AC005412, AC006333, AF134726, AF050154, AC004152, AL078634, AL022313, AC006441, AF130248, AL050308, AC000082, AL031311, AF107885, AP000045, AP000113, AP000509, AC004856, AL031666, AC005401, D87675, AP000512, AF196972, AL049834, AC006057, AC004148, AC008018, AF031078, Z82097, AC007537, AL008635, AC002544, AC007092, Z93023, Z84481, AC005157, AC004997, AC005274, AF030876, AC007666, AC004797, AL109939, D86992, AC006552, AP000300, U96629, AL022393, AC002449, AC004409, U78027, U62293, AP000065, AC007707, Z97987, AC007899, AC004912, AC005585, AL031320, Z85987, AC003086, AC005200, AL133163, AC006026, AC004876, D86995, AF001552, AL031432, AC006950, AL035422, Z98749, AC005089, and AC006392.
HCWFA14	1128	925301	1 - 479	15 - 493	T61555.
HCWFA65	1129	573193	1 - 236	15 - 250	
HCWFA88	1130	578943	1 - 365	15 - 379	AP000126, AP000204, and AP000244.
HCWFA89	1131	574370	1 - 257	15 - 271	AC002039, AC002045, U91326, AC002544, and AF001549.
HCWFC05	1132	932194	1 - 360	15 - 374	AC007283, and AC008179.
HCWFC17	1133	573186	1 - 367	15 - 381	Z98744.
HCWFC65	1134	883787	1 - 340	15 - 354	
HCWFD07	1135	953700	1 - 571	15 - 585	
HCWFD19	1136	574915	1 - 267	15 - 281	
HCWFD29	1137	573381	1 - 210	15 - 224	
HCWFD47	1138	671946	1 - 300	15 - 314	AI799197.
HCWFD64	1139	954575	1 - 363	15 - 377	TS1407, AC006942, and AF064861.
HCWFE06	1140	935856	1 - 379	15 - 393	AA663467, and AA663457.
HCWFE18	1141	573445	1 - 99	15 - 113	
HCWFF41	1142	849978	1 - 135	15 - 149	
HCWFF88	1143	506577	1 - 304	15 - 318	
HCWFFJ65	1144	578936	1 - 386	15 - 400	AA594971.
HCWFFJ72	1145	856908	1 - 625	15 - 639	
HCWFK16	1146	849988	1 - 187	15 - 201	
HCWFK20	1147	575696	1 - 225	15 - 239	
HCWFK35	1148	916795	1 - 540	15 - 554	AA491175, and AC003957.
HCWFK57	1149	861907	1 - 314	15 - 328	
HCWFK73	1150	761655	1 - 304	15 - 318	AA093114, AA523695, AA487226, AI364568, T62078, AI869786, H95822, AI686470, H81700,

HCWFK91	1151	954008	1 - 315	15 - 329	AA214042, AA297006, AA021561, AA056250, H69992, F34939, C16358, H45698, T94394, AA582746, A1697242, AA225004, A1371722, A1003444, AW264391, A1866580, A1697239, W81372, A1697235, AA558366, A1355246, AA564800, H64715, H68379, AA668587, A1973173, AA828476, AW019964, H29241, A1279417, AW419389, A1367551, N25079, AA243976, H29914, AA568314, AA378489, AL031591, U47924, AC004841, AL008730, AC005015, AJ010770, AC003037, AC001228, AL133243, AC005839, AC004999, AC005726, AC005694, AC002470, AC006449, AC005520, AL049872, AC005736, Z84466, AL009181, AL049795, AC005480, L44140, AC007263, Z97055, Z98950, AP000692, AF152365, AC006360, AC003663, Z73359, AC002544, AC007308, AF196779, AC006241, AL132987, AL031848, AL049874, AC005519, AC004832, Z86090, AC005399, AC006045, AC007066, AC005088, AC005412, AC004476, AC002302, AC004033, AC005529, AC004765, AC005486, AL096701, AL032821, AC005684, AC004232, AC004921, AL139054, Z98036, AP000354, AB026898, AC004816, AC007637, AP000300, AL096791, U80017, AP000010, AP000045, AL031295, AC000079, AC009784, AL109827, AL080243, AC004522, Y10196, AL035420, Z99716, AC007057, AC005071, AL133448, AC004783, AC002432, Z84469, AC002395, AC004216, Z97632, AL133246, AC004770, AC006020, AC003086, Z83844, AC007179, AL031864, AC002073, AL031589, AC004019, AP000043, AP000111, AP000049, AC004518, AP000557, AC002563, AC005821, AC007390, AP000066, AP000113, AC006088, AC005102, AC004217, AC007363, AL121840, Z99127, AP000503, Z97053, AP000311, AC005488, AC005049, AC003029, AC004381, AP000553, X55448, AC004967, AC004659, AP000689, AC002996, AP000356, AC006111, AL024498, AF134726, AL022326, AF165926, AL008729, AL034549, AL121658, AL031667, AF111168, AC004687, Z98742, AC004813, AC005324, AC004223, AP000961, AC005899, AF196969, AC006487, AC006013, Z97181, AL022721, AF060568, AC006021, AC005089, AC005081, AC003108, AC005566, AC004797, AC006387, AJ011930, AL035685, Z73417, AC005793, AC005280, AC012384, AF024533, AP000552, AL035681, AC003982, AL031659, AC007114, AC005386, AL035249, AL035683, AC004901, AC005971, AC000378, AC005562, AC008372, AC004099, AC005225, AC002351, AC004253, AL008707, AC000025, AC005740, AC000353, AC009509, AC006254, AC002492, AC005527, AL049694, AL034421, AC009516, U63630, AC005746, Z95152, L78833, AB023048, and AL031291.
HCWFL10	1152	964853	1 - 317	15 - 331	L44321, AL096867, AL022154, AC007567, AL034402, and AC004853.
HCWFL31	1153	953579	1 - 186	15 - 200	AL031673.
HCWFL45	1154	577950	1 - 402	15 - 416	AA579235.
HCWFL78	1155	529218	1 - 288	15 - 302	
HCWFL86	1156	523359	1 - 417	15 - 431	Y13758.
HCWFL94	1157	575522	1 - 290	15 - 304	N21434, AA126969, AW069769, AA551548, AA640563, A1031759, AA664248, A1300507, A1183392, F31670, AA507623, AA219166, AA837771, A1567676, AA648605, AA558402,

AA558716, W00479, AJ521019, A1538404, A1884404, AA774169, T57096, AA846046, AW271071, AA225630, AA657808, A1251024, AW407679, A1872229, AA715508, R12600, A1281622, A1803824, A1241851, A1267356, A1926093, AW023975, AA364082, A1754257, A1801479, AA984891, T41134, AW243817, R33053, A1961232, AW085811, AA349923, AA602939, A1520984, AA987703, AW268793, AW439224, A1267450, A1065031, A1921744, A1745666, AA018923, A1032411, AA533011, AA364147, F35684, A1732911, A1185394, AA507990, A1252726, AW406139, R95751, A1174827, A1668566, AA309287, AA808842, A1469564, R33588, AA873661, AW157128, A1274691, H49749, AA633068, AA012829, H79323, A1039257, AA640305, C14724, AW022796, AA601712, A1733523, A1038029, A1434103, A1828742, X84712, AA630122, A1708565, AA367920, AA338238, AW021674, A1888852, W02419, AA730530, AF075069, AF129756, A1035587, AC005399, AF165926, Y18762, Z83845, AC005015, AC005089, AC004099, AC005730, A1133163, A1049591, AC005837, AC005828, U02057, AC006544, A1080317, AC005531, AC000039, A1020997, A1035445, AF196972, AF030876, AC007371, AC007051, AC007919, D42052, AC004053, AB023051, AP000116, AP000505, AC005105, Z98946, AC005821, AC006543, AB033024, A1136295, AC006006, AC006581, A1050320, AP000512, AC007226, AC005069, A1031848, AC004678, AC004668, Z83844, U78027, U91326, AC002544, AC006538, Z69366, AC007878, A1035422, AC007462, AC002306, A1096761, AC020663, AC005694, A1246003, AP000513, AC006953, A117258, AD000092, A1078477, AF207550, A1109798, M89651, AB023049, AC007536, A1049636, AC003042, AC008372, AC005993, A1022336, AC006599, AC007687, A121658, A1031721, A1049829, AC006062, A1008735, A1035086, AC000134, A1034548, AC006388, M81890, AC005527, A1251973, AC002369, AC006511, AC009516, U26425, AC004234, AF111168, A1031575, Z97630, Z98884, AC007899, A1031311, AC006121, Z98200, A1132712, AC005037, AB023048, AC005519, AC007277, AP000511, Z84480, AC007314, Z81369, U63721, AC004592, AC004073, AC007934, AF031077, AF134726, A1135783, A1035450, A1031295, A1079295, AC008044, AC006241, AC004257, A1049569, A1096699, A1049759, AC006088, Z95114, A1021707, A1023801, AF031078, AC005565, AC005952, A1035413, A1035652, AC016027, AC007227, A1034421, U91322, AC009248, A1008731, AC002492, AC005747, A1034553, A1031680, AC005759, A109628, AC006211, A1031657, AC005529, AC004381, A121934, Z73979, AC005695, A1022318, AC005390, A1109847, AC006162, AC005207, AC004953, U07563, D16583, AC004460, AP000256, A1008718, A65971, AC005261, A1003147, AC006946, AC005365, A1135744, AC005031, A1022333, AC002310, D16517, AC006261, AB000882, AC005280, U24498, A1031903, Z68756, A1022476, AC007688, AC009498, AC002364, Z95116, AC004019, AC004814, Z83840, AC002991, AC004844, AP000510, AC004797, AC004477, A1133448, AC005778, AF076450, AC004975, Z84469, Z98051, AC005682, A1035045, A1035455, AC000075, AC000084, AC004703, AC006369, AC004673, AC006449, U80017, AC004897, AC007773, AC004130, Z82182, A1008628, A1122020, AC005325, AC006064,				
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HCWFM01	1158	916803	1 - 217	15 - 231	AC008115, AC004883, AC002400, Z93017, AL122023, Z69713, L78833, AC002036, AP000098, AP000099, AC005911, AC005375, AC005755, AL031284, AC004148, AC007450, AC004997, AP000275, AC002994, AC016830, AC004686, AL109613, AC007016, AC005046, and AC005914.
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HCWFM11	1159	959457	1 - 365	15 - 379	AA640305, AA156183, A1754257, AA631915, AA720732, AW083707, T71936, T58395, A1869455, AA862243, R68249, AA129133, AA883595, AA747469, A1241761, AW021105, AW023167, A1207424, AA804736, AA936746, A1230815, W01344, A1744199, A1763234, AA324242, R76686, AA776899, AA664963, A135357, AL044701, AA593537, A1984742, A1917132, AW072963, A1307563, AC002470, AC004841, AC002094, AC005399, AC007066, AC005207, AF111169, AC004820, AP000240, AC005049, A1000092, AP000096, AL135744, AC003684, AC008018, AC007263, AC005529, AC005300, AP000011, AF001548, AB003151, AL035423, AC006511, AC007312, AC004707, AL031670, Z93017, AC005088, AC007371, AC006241, AL031293, AL022721, AF111168, AC004167, AC005295, AC002369, AL049653, Z99127, AC004234, AC004859, AC005736, D00591, AC005251, AC003043, AL021397, AF129756, Z98884, Z93930, AC006509, AF165926, AP000322, AC002375, AL049839, AC006121, Z84480, AC005071, AC007774, AC007395, AC006001, AC005224, AC002377, AC004076, AC004922, AL033524, AC000159, AP000361, AC004129, AL132987, Z84469, Z82246, AF053356, AP000153, AC005231, D87008, AC004477, Z97056, AF196969, AL035458, AL133246, AC002351, AP000053, AP000121, AP000557, AC007277, U29895, D87012, AL022336, AL049538, D88268, AC004263, AC004583, AP000065, AP000280, AP000030, AC002477, AL034429, AC005253, AC006166, AP000215, M57678, Z98304, AC005370, AP000505, AE000658, AC005632, AC005070, AC005821, AL031311, AC004762, AC003982, AC005772, AC007308, AF176815, AP000107, AP000039, AC007993, AL109839, Z99943, Z73420, AC007228, AC002060, AL096791, AP000556, Z86061, AP000497, AL049557, AC008038, AP000558, AL031733, AL035420, AC005856, AF024533, AC006530, M63543, M63480, AC002400, AC006455, AC005519, AC007565, AC006077, AD000812, Y11107, AC007537, AC004805, AC005919, AC005940, Z69713, AC002301, U85195, AC006254, AF038458, AC004491, AL023096, AL078463, AC005755, AC004815, AL035249, AC007676, AP000694, Z93016, AL033521, M63544, AP000348, AC002563, AC005875, AC005726, AC006160, AL049776, AC009516, AP000038, AP000106, AL031284, AC004472, AC007664, AC004851, L81692, AC005023, Z92542, AC006376, AL035462, AP000228, AC005520, AL034419, AC004799, AL035587, AC002395, and AL031681.

HCWFM16	1160	678627	1 - 368	15 - 382	W07244, H81645, H87712, Z18338, A1627848, AL022476, AF128536, and AF128535.
HCWFM26	1161	677348	1 - 356	15 - 370	AL021918, AC003070, Z93017, AL022316, Z97876, AC008079, AC004228, AL109827, AP001054, Z81370, AC008018, and AC004678.
HCWFM43	1162	715387	1 - 88	15 - 102	
HCWFM59	1163	757660	1 - 338	15 - 352	
HCWFM60	1164	740470	1 - 410	15 - 424	
HCWFM65	1165	849957	1 - 252	15 - 266	A1349018, AC006512, Z85987, AL117338, AC005920, AC003982, AL031681, AL050318, D87675, AC005233, AC007226, and AC008072.
HCWFM77	1166	706488	1 - 152	15 - 166	
HCWFN14	1167	680404	1 - 351	15 - 365	AL134393.
HCWFN22	1168	674750	1 - 381	15 - 395	
HCWFN37	1169	576547	1 - 255	15 - 269	
HCWFO01	1170	916814	1 - 357	15 - 371	A1657485, N83963, N88177, N87188, N83707, AR018815, U39066, U48696, AF045432, A1243486, U48697, AF102850, X99060, AF001863, AF061744, X99056, X99052, Y16299, X99058, X99051, AF011573, and X99055.
HCWFO02	1171	920416	1 - 372	15 - 386	
HCWFO20	1172	577709	1 - 303	15 - 317	
HCWFO24	1173	664581	1 - 328	15 - 342	
HCWFO30	1174	692814	1 - 316	15 - 330	
HCWFO40	1175	913855	1 - 407	15 - 421	
HCWFO51	1176	725756	1 - 72	15 - 86	AC003540.
HCWFP21	1177	531288	1 - 442	15 - 456	
HCWFP27	1178	927700	1 - 287	15 - 301	
HCWFP47	1179	849893	1 - 398	15 - 412	
HCWFP71	1180	933211	1 - 341	15 - 355	T65964, R01423, R01424, R05277, R44699, R51780, R44699, H11322, H13859, H13911, H21393, H22117, H45982, H98744, N37080, N62715, N93640, W60228, W76544, W87768, W90518, AA010775, AA011055, AA029083, AA029084, AA036822, AA057660, AA082814, AA101057, AA130702, AA132788, AA147813, AA151511, AA173298, AA187994, AA192370, AA243010, AA250948, AA521284, AA535404, AA594843, AA603875, AA627091, AA662313, AA721002, AA761271, AA826710, AA865743, AA975254, AA995525, C05796, AA206634, AA654116, AA283178, AA291958, AA291959, AA452464, AA628258, AA634632, AA447651, AA777137, AA812493, AA835567, AA846451, AA852494, AI003962, AI084740, AI094339, T23658, Z41681, F03361, F03690, F09370, AI245866, AI251909, AI280679, AI202164, AI474105, AI524387, AI540076, AI479426, AI498061, AI566416, AJ582492, AI127570, AI187378, AI191272, AI279638, and AI587165.
HCWFP81	1181	576363	1 - 306	15 - 320	

HCWFR11	1182	967266	1 - 170	15 - 184	
HCWFR83	1183	721373	1 - 450	15 - 464	
HCWFS22	1184	971566	1 - 365	15 - 379	AI830563, AI675015, AI634079, AI766110, AI924352, AA506986, AI419874, AA417050, AI582146, AW302226, AI653982, AA707615, AA947674, AI824293, AA417181, AA923538, AI367252, AA344961, AW418521, AA559136, AI253198, AI028337, AA835007, AI367250, AI081854, AW136460, TI2625, AI873313, AA879191, AW087636, AI207096, AW087600, AA904762, and AI198471.
HCWFS65	1185	572953	1 - 238	15 - 252	
HCWFT29	1186	690751	1 - 357	15 - 371	AL041375, TS2772, AI572680, AW273432, AI801563, AA493464, AA810158, AW238575, AA601376, AA355367, AA515924, AA595661, AA484892, AW084173, AI251024, F01666, AW089625, AI355246, AI797998, AA526413, AA525807, AA019973, AA128511, AA602971, AI927275, AA199582, N90244, AA559241, AI002950, AA604601, AA640305, AI760835, AA367672, AA503298, AA397355, AL043719, AI973173, AA013168, AA313025, AW270768, AW272815, AI609972, AA515905, AW238016, AA112187, AI246796, AI935827, AA714011, AA228778, AI345157, F01532, AA513122, AW302903, AW275719, AW105463, AL048925, AI283938, AW238712, AI056177, AW419389, AI678468, AA420787, AW193493, AA657835, AW179316, AA837646, T48723, AA904275, AI926909, AI803809, AW020088, AA610784, AW023390, AI923052, AA079421, AA225392, AC003041, AL049830, AL031433, AC004797, AC005740, AC009516, Z83838, AC002119, AC005940, AC005920, AL023281, AC005261, AC012627, AC005821, AC005899, Z94056, AL035587, AL031432, AC004859, AC004019, AL034423, L05367, AC008124, AC005037, AL022336, AC004895, AC003098, AC003109, AC005822, AC005529, AP000066, AP000556, Z99570, AC020663, AC004408, AP000116, AB000882, AC005387, AL109627, AC007666, AL031390, AC006254, AC004623, AC004448, AC002347, AP000503, AF134726, AL031577, AC004686, AL049636, AC005486, AC004596, AC005971, AL022721, AL139054, AC002551, AC005523, AC005358, AC005527, AL121754, AL035684, AC004034, AC005913, AC006071, AP000049, AC007536, AC005902, AC006285, AC007216, AC005703, Z95114, U78027, U91326, AC006011, AC006449, AP000311, AC002059, AC005839, AP000512, AL049795, AL049766, AL049793, AC003956, AC005288, AL049709, Z98200, AC002511, AC004242, AL117694, L44140, AC005914, AL049692, AC003030, AF111169, AF111168, AL022311, AF045555, AC004526, AC005399, AC004167, AC004878, AC007227, AL035422, AC004796, AC006511, AC002091, AC005104, AF031078, AC004821, AC005081, AC005004, AL033392, AC006057, AC004150, AC005318, AC002492, AC005722, AF030876, U62293, AC004882, AC004253, U63721, AC005736, AC006111, AC007225, AL035659, AC007030, AC000052, AC005695, AL022313, AF109907, AC002045, AL031393, AC000026, AC007395, AF141309, AL031282, AL034351, AC002544, AL022327, AC006270, AL121655, Z83840, AC005015, AL049872, AC004854, AL133245, AC005412, AC005799, AL022328, AP001053, AC002115, AL049643, AF003626, AJ246003, AC006360, AC018633,

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HCWFT33	1187	959471	1 - 258	15 - 272	
HCWFT44	1188	935855	1 - 338	15 - 352	
HCWFT77	1189	739571	1 - 259	15 - 273	AI922362, AA130574, and AC004492.
HCWFT84	1190	542236	1 - 396	15 - 410	
HCWFT03	1191	921944	1 - 307	15 - 321	
HCWFT07	1192	861902	1 - 107	15 - 121	AW205685, AI698601, AA884459, N23262, AA552480, and AA905404.
HCWFTU9	1193	577315	1 - 536	15 - 550	AC006501.
HCWFTU32	1194	716340	1 - 473	15 - 487	
HCWFTU64	1195	577888	1 - 364	15 - 378	
HCWFTU66	1196	853005	1 - 392	15 - 406	AA745185, AI216430, AP000553, and AC0009516
HCWFTU76	1197	576839	1 - 401	15 - 415	AA768179, AA368329, AA346867, AA348271, AW439810, AI278130, AI904944, T07285, AA558404, AW268090, AA229823, AI567391, AA228979, AW243945, AA279385, AA112924, N86484, F30586, AA297443, AA583579, AA078384, AI283938, AI421257, AA378489, T99020, AA564925, AA745297, AI273837, AA972523, AA372311, AI369076, R99613, N40907, AA581240, AA582746, AA559205, AI984168, AA367014, AW008184, F00458, M62257, AA424249, AI299442, AA449468, AA581185, AI016192, AI932871, T62078, AA229422, AA160427, AA484892, W26972, AA515172, AA385775, AA583568, AA372389, AA354695, AA838098, AI003391, N92697, AW194046, AI889426, AA523695, AA582350, AI859744, AA653713, C15362, AA356376, AW237905, AA831801, N77384, AA720582, AI915081, AW341955, AA573000, AA482792, AW328331, AA302978, AA728911, AA664248, D51809, AA610255, AA419225, AW341882, AA630854, AA502110, AA115865, AW272389, AI223968, AA634991, AW328330, AA488687, AA832016, AA661883, T40550, AA503307, AA354677, AW265688, AW151247, AI354333, AA584765, AA837771, AI146266, AA352521, AA838161, AW249720, T47138, R98409, AI859438, AA427808, AA481811, W02749, AL041895, AA515939, AI123488, F17537, AA669747, AI927275, AA810837, AA425924, AW264998, AA678616, N52276, AA364988, AI537800, AA329535, AI187148, AC005538, AC004098, AC002066,

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HCWU83	1198	574864	1 - 515	15 - 529	T71420, H65742, R17043, R53388, N39910, AL031295, and AL049675.
HCWU16	1199	849953	1 - 381	15 - 395	
HCWU21	1200	849905	1 - 349	15 - 363	
HCWU25	1201	733993	1 - 535	15 - 549	R92125, T98334, A1424340, AA632445, and AC004749.
HCWU32	1202	960099	1 - 247	15 - 261	AF001550.
HCWU34	1203	577896	1 - 456	15 - 470	AA488048, AW007822, AC005244, AC004673, AL080241, AC004075, AC002412, AC004388, AL132668, AC005100, AF117829, AL022158, AC004585, Z95152, AL022310, AC004478,

HCWFEV37	1204	575715	1 - 408	15 - 422	AC000114, AC007680, AC004014, AC007655, AC006313, AC007115, Z80771, and AL035464.
HCWFEV50	1205	723666	1 - 433	15 - 447	N64515.
HCWFEV69	1206	527087	1 - 410	15 - 424	AC004007.
HCWFW51	1207	671807	1 - 493	15 - 507	AA911986, and AP001055.
HCWFX23	1208	675902	1 - 332	15 - 346	
HCWFX30	1209	825920	1 - 322	15 - 336	
HCWFX44	1210	703028	1 - 503	15 - 517	NS1043.
HCWFZ30	1211	692719	1 - 310	15 - 324	AL119853, and Z69304.
HCWFZ56	1212	733414	1 - 294	15 - 308	
HCWGA27	1213	861968	1 - 325	15 - 339	AI880278, AW276156, AI983646, AA877596, AI887774, AI347477, AI673036, AI458241, and AL022237.
HCWGA32	1214	699272	1 - 331	15 - 345	
HCWGB61	1215	733105	1 - 487	15 - 501	L44329.
HCWGB64	1216	578734	1 - 158	15 - 172	
HCWGB78	1217	861843	1 - 380	15 - 394	
HCWGC02	1218	917348	1 - 321	15 - 335	
HCWGC50	1219	772358	1 - 399	15 - 413	
HCWGD20	1220	906973	1 - 373	15 - 387	AI636734, AA557982, AA715527, AA715344, AA284247, W02749, W63553, AA715284, AI923360, AA557136, AA742815, AI929298, AI929825, AI120543, AL039930, T47138, AW157180, AI291419, AW403829, AA401921, AI571866, AA219349, AI368873, AC006141, AC004257, AC005317, AC005071, AL031123, L78810, AC004542, AC007216, AP000501, AC007052, AC006449, AC003665, AC005531, Z85987, AC007637, AL008726, AC007546, AF001548, AC007686, AC004821, AL031295, AC005529, AL135744, AC000353, AP000313, AC005911, S45332, Y10196, AC004825, AP000050, AF196779, AI251973, U95740, AC005088, AC004797, AP000117, AF134726, AC006581, AC006211, AC005696, AP000557, AC006946, AC004638, AL050342, AC006130, AC005484, AC000025, Z84718, AC004890, U78027, AL078593, AC003070, AL033375, AC006360, AD000092, AL035422, AC007690, AL049874, AC009516, AL050327, AC005015, AC006251, U91326, U95742, AF045555, AC006241, Z99495, AC002310, AC006480, AC004531, AL031733, AP000350, AC005261, AC020663, Z98884, Z98941, AC006121, AC005081, AC006084, AP000302, AC004820, AC006160, AL109628, AP000558, AC005102, AC006487, AP000352, AC002416, AC004765, AC002425, AC005189, AP000114, AP000046, AL078477, AL035684, AC005920, AC007376, AC005740, AC002544, AC004876, AC010582, AL031680, AP000503, AC002477, AL133246, AC007041, AC005324, AC007880, U47924, AP000065, AC009405, AL022240, AC005027, AC006539, AC004983, AC004832, AC005919, AL031311, AC004815, AC004448, AC003002, AC007738, AC007225.

HCWGD33	1221	849909	1 - 327	15 - 341	AL121655, AC004000, AC004927, AC004933, AC008044, and AC006080
HCWGD66	1222	496411	1 - 264	15 - 278	
HCWGE12	1223	967067	1 - 364	15 - 378	
HCWGE22	1224	727967	1 - 328	15 - 342	AA330772, AW022897, R79496, AA188940, H12383, AL038971, AL339974, AA370455, AL031584, Z98941, Z97055, AC004815, AC005015, AC004584, AL022165, AC005952, AC004491, AC000134, AC005821, AJ003147, AC004876, AC004966, AC005102, AL031276, AC003690, AC007842, AC004552, AC006071, AC006285, AC005280, AC005300, L107563, AL035071, AC002045, AP000692, AL049757, AC002299, AC006953, AC005048, AC008044, AC005527, AP000513, AC004926, AC007151, AC016830, AB023049, AC004526, AL121578, AC005529, AC002470, AC006312, Z85986, AC007993, Z84469, AC002558, AC004638, AC005726, AL031279, AF111168, AC004967, AC004832, AL020997, U191326, AC007541, Z82208, AC004263, AJ229042, AC000025, D84394, AC016025, Z96074, AC005519, AC007041, AL034429, AC007308, Z95115, AC006252, AL031311, AJ251973, AL035659, AC005011, AC004167, AC006251, AL035089, AC005899, AC002544, AL096702, AC002365, Z98946, AC004770, AC006121, AL132712, AC004945, AC007421, AF064861, AC006530, AL031291, AC006946, AC006211, U80017, AC000359, AP000346, AF128525, AP001054, AC000357, AL009181, AL035450, AL009182, AL133500, AL031228, AC005081, AJ010770, AF001552, AC008372, AL022722, AC006388, AC006023, Z97053, AC004228, AC002565, U52111, AC006120, AL035681, AC006450, AL049872, AL049636, AL034555, AL035415, Z99128, AL035587, AC006040, AC006115, AC002070, AL022238, AC006324, AC005940, AC016027, AC004687, AP000252, AP000211, AP000133, AP000167, AC004216, Z82201, AP000689, AL008726, AP000558, AC004887, AC005874, AF134471, Z93930, AC005993, AC003108, AC006006, AF038458, AC007676, AC002301, AC006012, Z82178, AC009247, AC006544, Z98304, AL021878, AC004953, AP000031, AL021546, Z83845, AC005180, AL049779, AC005800, AC005480, AP000694, AC002059, and AC004217.
HCWGE23	1225	853004	1 - 453	15 - 467	
HCWGE25	1226	657236	1 - 363	15 - 377	
HCWGE39	1227	705403	1 - 58	15 - 72	AI811654, and AI032916.
HCWGE47	1228	925105	1 - 429	15 - 443	AC004072.
HCWGE53	1229	728249	1 - 342	15 - 356	T47041, and AC010385.
HCWGE65	1230	720349	1 - 348	15 - 362	
HCWGE73	1231	757333	1 - 198	15 - 212	
HCWGE78	1232	527557	1 - 325	15 - 339	
HCWGE92	1233	792722	1 - 273	15 - 287	AL117411, AF109126, and X99338.
HCWGF06	1234	935492	1 - 398	15 - 412	

HCWGF71	1235	960089	1 - 436	15 - 450	AC008055.
HCWGF74	1236	529235	1 - 231	15 - 245	
HCWGF75	1237	682351	1 - 347	15 - 361	
HCWGF76	1238	752789	1 - 321	15 - 335	AA719214, and AA716020.
HCWGF91	1239	754244	1 - 141	15 - 155	
HCWGF92	1240	861865	1 - 293	15 - 307	AW16641, AL049676, AA774098, A1668994, A1336771, AW069227, A1634187, A1457313, AA837325, A1018726, AA318652, AL037777, AL044712, A1252726, AA525332, A1369076, W26972, A1241637, AL044177, AA484651, AA598605, A1243793, A1679045, A1120004, AA588353, AA487209, AA376358, AL039761, A1017733, AW270429, T53133, AW270351, AC002381, AP000959, AC004908, AP000070, AP001053, AL078581, U89335, U52111, U85195, AE000658, AC007221, Z73913, AL049828, AC007214, AC004617, Z95152, AP000168, AL031685, AC007934, AC004584, AC005829, AC005829, AF111167, AC005587, AL109837, AL035089, AC003950, L11910, AC004787, AL121757, AC000081, AP000501, AL022345, AL022163, Z83838, AC004859, Z81010, U78027, AC005921, AC005625, AC005822, AP000251, AC009405, AL049699, A1011930, AC002091, AC003973, AC008101, AC005873, AP000030, AP000507, AP000557, AL035071, AP000555, AC006115, AC005225, AB002353, AC004796, AC006515, AL034418, AC002565, Z84474, AL021397, AC006541, AC005391, AF165141, AC003002, AC005231, AP001054, AC002543, AC005237, AC005920, AL022326, AB023049, AP000512, AL109613, AC009275, AC005666, AL049759, Z81370, AC004912, AL035422, AC005755, AP000503, AL023553, AF134726, AL031391, AL035587, AC002314, AC006277, AD000671, Z86063, AC003030, AL022320, AC004001, AL031282, AC004685, AC004466, AL009174, AC004876, Z97054, AC004812, AL096791, AL031427, Z98200, AC005184, AP000553, Z83844, and AC005089.
HCWGO7	1241	849889	1 - 388	15 - 402	
HCWGO39	1242	849891	1 - 575	15 - 589	
HCWGO62	1243	916454	1 - 349	15 - 363	
HCWGO71	1244	710828	1 - 371	15 - 385	N88113, N85682, N86592, AA092643, AA091872, and AA096089.
HCWGO80	1245	529242	1 - 319	15 - 333	
HCWGO84	1246	853106	1 - 388	15 - 402	R51952, and AC005214.
HCWGR34	1247	923577	1 - 363	15 - 377	
HCWGR43	1248	734888	1 - 302	15 - 316	AA513238, AA526630, A1051037, A1243789, A1002810, A1051457, AA329659, AA064815, AA707879, F07155, AA362988, A1027056, A1002207, W03818, A1581486, T91561, AA657835, AW188427, R22496, R63562, H03144, AA578358, AA328676, AA503407, AA149724, AA297006, AF053356, AC005409, AF001550, AC010205, AC004895, AL031003, AC004851, AC006211, AL078581, AL020997, Z83846, U91318, AC003684, AC007685, AC004821, AC004098, AC005914, AC004796, AC005484, AC005919, AL049869, AC005243, AL133371.

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HCWGR47	1249	719518	1 - 251	15 - 265	AL007684.
HCWGR48	1250	690954	1 - 167	15 - 181	AL009177.
HCWGR69	1251	849946	1 - 422	15 - 436	T40338, AA657918, AW080134, F16127, F37169, AW265654, AA469451, AA984640, AA704643, AL041368, AL138242, AA491545, AA713767, F29989, AA649642, AL200051, AW023389, AA650434, H65428, AI355206, AA501809, AI061334, AA831388, AA525151, AW406659, AA847128, AA364224, F34795, AA601355, F23249, AA640979, AA156538, F33511, AA678436, AA491814, T63104, N27353, AA533725, AA513939, AA581903, AA649705, AA634238, AA747472, AA714453, AI824562, AA482711, AA310868, AI924251, AA604869, AA654979, AA847753, AA525406, AI963720, AA364315, AA507824, AA601892, M77895, AW104748, AW236342, AA503258, AL043721, AA703707, AA441788, AA310879, AW250970, AI963095, AI303008, W07122, M62272, AA457771, AA318652, AI982651, AA569075, AA470985, AI284640, AW088058, AI471464, F28776, F35673, H64777, AW272758, AA206935, AA604897, AA713534, AI918421, AA235575, AA768905, AI251002, AA708352, AI610159, AI344844, AA749274, AA371567, AI471487, N31557, AA515224, AA767376, AA347531, AA644551, AI962050, F27027, AI287651, AA626678, AA702614, AA745560, AA302732, AA644538, AA831599, AI287528, AI792287, AA425922, AA668578, AI653905, AA101689, AA513972, AW265294, AA523810, H22634, AA713762, AA100372, AA652057, AA603323, AI708009, AA713933, AI246796, AA469460, AA578017, AA613851, AI264743, AA573020, AA468022, AA640900, F23315, AA557879, AA369477, AI610920, AA683037, AI281697, AA143477, T49241, AW406447, AA632960, F36404, AA199660, F32808, AL119691.

					AW341900, AA551201, AA635067, AA601876, AA192695, AI270326, AA910125, N55273, AA535937, AA071144, AI471572, AA357987, AA557325, AI160117, AA747480, AA665021, AI523668, H96730, AI061296, AA071393, R96657, AI917271, AI633007, F36273, AA526193, AA746726, AA931647, M37551, Z30994, U22376, U57007, Z30983, X54176, Z31005, Z98885, AF087913, AL049759, AC009263, AC005839, AF015148, AC004887, M87919, M77848, AC007050, AL109839, U91326, X75335, AL121655, AC005787, AF015155, Z30979, AF192789, S77605, U14717, AL096701, S75337, AF015152, U02049, U14711, U14712, U14713, J03071, AL079295, AL109628, L44140, AP000556, AC005520, AL117258, AP000552, Z81369, M77849, AF015153, AL034401, AL078581, AF015160, U14708, Z83840, AC005740, M29322, AC020663, AC005280, AC005785, AP000117, AL022316, X67330, AP000553, AL133382, AC009516, AC006538, AC002544, AC002055, AC000951, J51997, AL031276, AC004890, AL009179, AL031229, AC003688, AL021937, AC002425, AL035535, U47924, AC007160, Z75887, AC003046, D26535, AC004463, S75201, AC005763, AL049697, AC005988, AL080248, AC000353, AC005412, AL035688, AC004263, AC006285, AC006312, AL135744, AL031732, AC004797, AF207550, AC006505, M89651, M87918, AF054569, AC006360, Z32772, AL049757, AC004859, AC007462, AC007731, AC007240, AP001045, AC006441, AC005500, Z98884, AP001052, AF111170, AC006241, AL020989, X60653, AL049829, AC006130, AC005516, AC016025, AC005102, AC004477, AP000557, AC006012, AF180475, AC005399, AC004139, AL078621, AJ011930, AP000272, AC006079, AL096774, X77859, AC005829, Z98050, Z84721, AC009946, AC007537, AC004531, AC005088, AC004224, AL035071, Z49236, AC007488, AC007360, AP000079, AC005527, AC007664, AC006004, AC002301, AL024495, AC006011, AC007382, AC006037, AL022313, AL049576, AC004645, AC002984, AC005921, AC010168, AC005105, Z86064, Z84480, AL049795, AL049569, AL132987, AC004775, AL035410, AC005370, AF015416, AC005355, AC004492, AC005257, AC006252, AF110465, AB023049, AC004808, U14719, AC003104, Z98052, Z75744, AC010582, AL035423, AC006317, AL034430, AC005920, AF024533, AC018767, AL034553, AL031255, AC005924, AC007064, AC007057, AC004050, AP000745, AC003109, AB031740, Z84474, Z97053, Z82244, AC005011, U34055, M77847, AL034379, AL008708, AC007676, AL021878, AC011604, AL049699, AL121658, AC005567, U34052, M64231, AF121781, and AL049539.
HCWGR76	1252	778293	1 - 399	15 - 413	N88601, AA247827, N84855, H58760, N84048, N83993, N84718, U39066, AF039698, AF032922, and S78798.
HCWGR88	1253	736056	1 - 202	15 - 216	
HCWGT45	1254	913730	1 - 691	15 - 705	N53076, T90911, D25951, AA650097, and A1801737.
HCWGT49	1255	527085	1 - 406	15 - 420	
HCWGT66	1256	531374	1 - 448	15 - 462	
HCWGU11	1257	967064	1 - 650	15 - 664	AA913734, AI056453, and AW194191.
HCWGU49	1258	674752	1 - 227	15 - 241	AA947385, AA468583, and AC005214.

HCWGU57	1259	705637	1 - 117	15 - 131	AI078214, H77522, and AI052167.
HCWGU86	1260	666943	1 - 295	15 - 309	
HCWGW10	1261	935865	1 - 382	15 - 396	AC004590.
HCWGW12	1262	964088	1 - 426	15 - 440	N56555, N88601, AA093861, AA247827, N84048, N83993, N84855, N87989, AF045432, AJ243486, U48696, AF039698, and AF032922
HCWGW13	1263	849911	1 - 395	15 - 409	
HCWGW32	1264	615553	1 - 448	15 - 462	
HCWGW63	1265	745091	1 - 57	15 - 71	Z69705, and AC004754.
HCWGW80	1266	742103	1 - 153	15 - 167	W07329, A1638772, A1766112, AA947305, A1684857, AF086142, and AF086126.
HCWGW85	1267	556369	1 - 265	15 - 279	
HCWGW86	1268	785506	1 - 330	15 - 344	AA584167, AA747070, A1345157, AA580808, AA493695, R95139, AW075948, AA847499, AA468022, AW275510, AA501762, AW193265, AW438643, AW302903, AW249224, AA577959, A1873852, AL042753, A1873990, AA478355, AW149113, A1872020, A1247199, AA483771, A1754658, A1350211, A1687343, AW274349, AA662225, A1583283, A1696962, AA531079, AL048925, A1860013, AA808877, AA724333, AW303196, A1040342, A1038072, AA679532, AA224083, AA515909, AW303002, A1567076, N15602, AA507824, A1133297, AA568869, AA515334, AA847952, A1613280, AA961035, AA468456, A1270117, AW002350, A1471887, AA321168, AA490183, AA333638, AA428792, AA524821, AA369254, N29815, AW301350, A1305766, A1972203, A1584186, AW069769, AA912099, A1932493, AA664909, AA857486, AA683258, A1281881, A1284640, AA613345, AW264934, AA504877, AA588001, AA828749, A1801482, AA169263, AW023990, AW103758, AA634889, AA502860, A1608668, AW235497, AA483223, AA224525, AW276817, AA581903, AA661921, A1054343, AW327868, A1963720, AL120933, AL046205, AL041690, AW270709, AA584082, AL042853, A1634384, A1865905, AA653375, A1368256, AA469451, AW083402, AA623002, A1783494, AW270382, AA938105, A1733755, A1933534, AA812281, AA483929, AA019312, AA577906, AA584581, AW419262, AL042547, AW083364, AA167055, AA576336, AA581123, AA610491, A1434706, AA702729, A1744995, AA682912, AA639326, A1654525, AW274346, A1866160, A1431303, AA579075, A1345654, AA719292, AA658362, AA788901, AW248803, A1445674, AA523837, AA720702, A1816141, AJ002510, AL120927, A1358431, AL118991, C16397, AA846876, AA220943, AA613397, AL046409, AA192740, A1133164, AA178953, T06648, AA834792, A1110844, AA715255, T74382, AA715267, AA848134, AL120269, A1824706, A1698447, A1085719, AA478297, AL040130, A1093030, AA533762, AA584667, A1640841, R35746, AA380354, AW276710, AA745406, AA578997, A1470646, AA550376, AA581076, AA601270, A1633390, AW275971, AW301809, A1580250, A1241821, T51911, AA503015, AW118539, R02632, AA126777, AA774780, AA326372, AA533333, A1254913, H71429, A1708009, AA631507, AW168618, A1636730, AA480784, AF034184, AL119713, AW050498, Z84482, AC005028, AC002549, AC006155, AC004620, AL022329, AC005375, AL117356, AL021408, AC005768.

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HCWG95	1269	958780	1 - 451	15 - 465	
HCWG95	1270	902512	1 - 1076	15 - 1090	AL042667, AL042670, AA642809, AL048060, AW272815, AI433952, AI889995, AI753904, AA55232, AA525818, AA584360, AI310670, AI568376, AW104161, AI697235, AA533381, AA603359, AA669238, AA676592, AW192419, AI733856, AI049643, AI697239, AI697242, AI791659, AL041375, AA640305, AA298365, AA179364, AI270280, AA630476, AA324108, AI927275, AI436433, AI523540, AI434653, AA284247, AA714011, AW151247, AI310787, AI279417, AW238341, H86725, AI355246, AI801563, AI475297, NS4538, AI380617, AI690379, AI755227, AI049845, AI431442, AI859368, AL036282, AI473671, AA515727, AI814750,

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HCWGX23	1271	720486	1 - 312	15 - 326	AC004033, AC007731, and AC005500. C18732, AA634806, AA729161, and AA729860. Z95115, AC004491, AC005089, AL049843, and AC004973. A1183881, AW014092, A1085895, and AC007245. AA618172, AA632695, AL031681, AC004699, AC002565, AL133353, AL033403, AC004383, AC005562, and AC004128. AA716190, AA515438, AA614340, AA618172, AA632695, A1168274, AA760672, AA174138, AA135377, AA348966, T68597, A1735455, D44625, AA206028, AA747322, H17731, AL042425, AA809631, R98945, AW449193, AA226172, AA226173, H59461, AA468491, AA468952, T96546, A1734154, A1732760, A1124595, AA377927, A1240831, A1890794, R54247, R18870, R22698, AA551582, AC006511, AC004129, AF047825, AL031685, AC011331, AD000092, AC005086, AC002070, AL023096, AL031297, AC005495, AC005844, AC004984, AL034379, Z82173, AL034553, AL020997, AL031680, AC007686, AC008134, AL049653, AC005899, AC002044, AP001053, AP000349, AC005082, AC002994, AL031178, AL021937, AL031681, AC007790, AL049575, AC004552, AC007277, AC006501, AP001068, A1011930, AF121781, AC005609, AP000350, AL135879, AL121790, AC005280, AC005189, AL133238, AD000813, Z84466, AF001549, AC002132, AL133396, AL049844, AL035461, AL035070, AC002112, AC005620, AC006966, AL031670, AC004616, AL035703, AC009178, AL121652, AF196969, AC004079, AC001226, AF111169, AL049830, AC005003, AC005262, AB020863, Z82203, AC004098, AC004491, AP001059, AC004525, AC004682, AC009509, AP000502, AF134726, AF196972, AL133485, Z92542, AF002223, AC006160, AC004143, AF067845, and Z98304. AW020871.
HCWGX41	1272	849887	1 - 343	15 - 357	
HCWGX58	1273	920693	1 - 743	15 - 757	
HCWGX68	1274	733413	1 - 115	15 - 129	
HCWGX82	1275	924102	1 - 274	15 - 288	
HCWGX94	1276	793197	1 - 170	15 - 184	
HCWGY02	1277	920113	1 - 348	15 - 362	
HCWGY03	1278	924208	1 - 251	15 - 265	
HCWGY12	1279	970693	1 - 324	15 - 338	
HCWGY20	1280	669717	1 - 311	15 - 325	
HCWGY33	1281	702441	1 - 476	15 - 490	
HCWGY43	1282	660568	1 - 228	15 - 242	AC005620, AC006966, AL031670, AC004616, AL035703, AC009178, AL121652, AF196969, AC004079, AC001226, AF111169, AL049830, AC005003, AC005262, AB020863, Z82203, AC004098, AC004491, AP001059, AC004525, AC004682, AC009509, AP000502, AF134726, AF196972, AL133485, Z92542, AF002223, AC006160, AC004143, AF067845, and Z98304. AW020871.
HCWGY64	1283	670896	1 - 233	15 - 247	
HCWGY67	1284	861886	1 - 320	15 - 334	
HCWGY76	1285	496402	1 - 322	15 - 336	
HCWGY85	1286	917132	1 - 338	15 - 352	
HCWGY86	1287	711312	1 - 459	15 - 473	
HCWGY90	1288	960159	1 - 250	15 - 264	
HCWHA03	1289	924189	1 - 136	15 - 150	
HCWHA09	1290	968224	1 - 157	15 - 171	
HCWHA10	1291	961278	1 - 376	15 - 390	

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HCWHA55	1292	731770	1 - 179	15 - 193	
HCWHA56	1293	733424	1 - 352	15 - 366	AA192173, AA837098, AA923355, AA483125, AA461421, AA828696, T63954, AA834805, AA583978, W07032, AA494090, A1547286, N87410, AA378683, N43757, AA381665, C19058, AA450199, T25550, A1921649, A1376100, AA826144, AW074059, AA551509, A1356904,

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HCWHA84	1294	733421	1 - 306	15 - 320	
HCWHB12	1295	970688	1 - 366	15 - 380	
HCWHB32	1296	966508	1 - 411	15 - 425	AL122003.

HCWHB65	1297	711437	1 - 122	15 - 136	
HCWHB68	1298	573571	1 - 317	15 - 331	
HCWHC01	1299	849886	1 - 320	15 - 334	AW117951, N64437, AA345333, N66776, AA508509, AA669416, AA724230, AL432270, AW439480, AL358343, AW193546, AL570822, AL120502, AW243706, AL252085, R44592, Z83840, U85195, AE000658, AL109628, AL011930, AC006449, AC005089, AL022163, AL022326, AL022238, L44140, AC000353, AC006374, AL020997, AL021707, AF196969, AF117829, AC004491, AC002381, AC002400, AC005046, AC007666, AC004671, AL049830, AL031577, AC000085, AC005565, AC002299, AL135744, AC005332, AC006211, AL121655, AL049874, AC004000, AL023807, AC005288, AC005826, AC004003, AL096701, AC007243, AC006312, AC006270, AL033525, AF042090, AC006379, AC006501, AL031737, AC020663, AP000509, U95740, AC006116, AC006285, AC004941, AF109907, AC005529, AC004895, AJ239321, AP000514, AJ246003, AC006530, AC007676, AC005212, AC004678, AP000031, AL023799, AL023281, AL121658, AL031120, U52112, AC005231, AL008718, AL034421, AC003663, AC006023, AL121652, AL035458, AC008126, AC005057, AC007277, AC004859, AL022720, AC000025, AL109847, AL133312, AL049745, AC005694, AB020868, AC002472, AC005527, AD001527, U47924, AL031668, AC002351, and AL049759.
HCWHC26	1300	950719	1 - 420	15 - 434	AL446464, AA348929, AA525824, AA503454, AL832909, AA192470, AL608626, AL436677, F19716, AL625647, AL589461, AA669251, AA045894, AL559251, N43757, C05755, AA451612, C06327, F10924, AA190911, AA446544, AA848172, AL472222, AL889781, U51696, AA338486, AL038703, AA652940, H64560, AA668639, AA744075, AA085124, AL064864, AA528519, AA074130, R78962, AL301713, AA359958, AL499134, AA243452, AW067900, R79263, AL692808, AL690698, F28576, AA347368, AL121505, AL357698, H60143, AA533450, AA669416, AA181823, W05405, AW302013, N92446, AL119984, AA954936, AL568678, AA593060, AJ921649, AL969436, AA837677, AL182038, AA648064, AA630352, N95554, AL679132, AL1376100, AL569086, AA303845, AA147197, AW117750, H85382, AA834820, T11542, AL798473, AA492252, AA480784, AA528516, AA886584, AA629992, AW074059, AA443138, AL356904, AL564284, C06119, TS6719, AC005288, U18396, M57427, AL008715, AC007225, AC008115, AP000503, AL132777, AC006285, AL121658, AC016025, AC004226, AC007240, AC004895, AL134726, AC005879, AP000552, AL133445, AL080243, AC005231, AL049869, U57004, AF067844, AF172277, AL008582, AC002350, AL133448, AP000347, AL122020, Z83840, AL049872, AL049636, AF088219, AC003043, AC007226, AC005730, AC003969, AC005909, AC005412, AL117356, AF165926, AC005048, AL050312, AC004853, AC002550, AJ239318, AP000042, AC003966, AL050341, AC005527, X06123, AL109802, AF090944, AC005488, AC000353, AC007676, AC005632, AC005529, AC004019, AC006449, AL021579, AL035460, AL109653, AC000025, AL121578, AC007546, AL006996, L49046, AP000496, AC006359, AL021368, AP000497, Z69918, AC004813, AC003013, AF015723, AC002316, AF114156, AC006211, AL009174, AL021940, AC002543, X61109, AP001138, Z99716, Z97876,

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HCWHC35	1301	706508	1 - 349	15 - 363	AC004983.
HCWHC37	1302	706509	1 - 300	15 - 314	
HCWHC50	1303	591202	1 - 537	15 - 551	AL035414.
HCWHC59	1304	964852	1 - 252	15 - 266	
HCWHD07	1305	953384	1 - 438	15 - 452	AL125214, H78331, N63856, and AA702824.
HCWHD17	1306	663865	1 - 428	15 - 442	AA019537, D58283, D80195, D80391, D51423, D59619, D80210, D51799, D80240, D80253, D80227, D80196, D80188, T03269, D80219, D59927, D80043, D80212, D81030, D80038, D80193, D80366, D80022, D59889, D80166, D80378, D59859, D59275, D80269, C14429, C14014, D80045, C75259, D80168, D80134, D59502, F13647, D80949, C14227, D57483, D80241, D59610, D81111, D58253, D51079, AW178775, AW377671, AW352158, D51097, AW360844, AW178971, AW177714, AW352171, AW179007, AW178754, AW179024, AW179020, AW177456, AW377676, AW179012, AW352174, D80290, A1557774, T11051, AW178986, AA033512, AA285331, H67858, A1525907, A62300, A62298, X67155, A67220, A84916, A25909, D26022, D34614, AJ132110, A78862, D89785, AR025207, Y17188, D88547, X68127, I82448, A85396, AR066482, AB010386, AB012117, X93549, A85477, U87250, A86792, I19525, A44171, AF135125, AR064240, Z32749, S69292, I18371, X89963, A43601, S78798, and AR033111.
HCWHD23	1307	934917	1 - 279	15 - 293	AA432091, AC003899, AL050308, AC007371, AL031005, AC005089, AC008055, AC004922, AC004148, AC001982, AC005412, AC002365, and AL031311.
HCWHD68	1308	690359	1 - 394	15 - 408	AC005591.

HCWHF62	1309	582472	1 - 429	15 - 443	H66222, R16430, and T99465.
HCWHF85	1310	746745	1 - 305	15 - 319	H95605, T05617, A1630894, AA587113, AA456942, AA430652, A1918575, AL048479, AW316599, A1866377, R01574, AA223907, A1633386, AA830070, A1567391, AA021354, F30586, AA054170, A1653776, AA515129, A1336398, AW3337805, A1096714, A1962030, N64807, H97510, F35689, A1905408, AW238212, AA018617, AA838192, A1921765, AA214227, AW082104, AL096701, AC005280, AC016027, AC016830, AF047825, Z84469, AF036405, AL031651, AL035458, AC004150, AL031447, AP000962, AC004983, AC000024, D87011, AF124523, AC004821, AD000684, AC006121, AC002394, AC004253, AC005482, AL109798, AL132774, AC006130, Z68165, AL049766, AC002425, AL132987, Z97056, AC0033003, AL035400, AL031681, AL034420, AC006512, Z82193, AL033527, AC004477, AC007308, AL049713, AC005881, AC004884, AC002551, AL031577, AP000503, AC005736, AC007970, AF165926, AC007225, AF084941, AL031659, AC005874, AF134471, AF134726, AC005011, AC006441, AC006552, AC007536, AR036572, U91328, Z85987, AC004605, AC004259, Y11107, AL008707, AC006946, AC004600, AL031685, AL024498, AC007191, AF196972, AC006241, AC006023, AF064861, AC004554, AC006536, AC000052, AL031680, AC003982, AC002470, AC002300, AC005410, AL049777, AC004019, Z85986, AF111170, AC004938, Z94801, AL023575, AC005089, AL022336, AC005048, AC005837, U91323, AL096712, AC004031, AL049540, AL049765, AC000120, Z98051, AL049760, AL031431, AC004616, AC006312, U95090, AC004386, AC002314, AL008718, AC005368, Z75890, AC004643, AL110292, AF109907, AC003043, AC007381, Z98200, AL031596, AC005037, AF048729, AF001550, AC007731, AC005726, AC005500, AC004858, AC003108, AF118808, AC004491, AF015416, AC006487, AC005225, AP000555, AC005856, AC006115, AC007052, AP000365, AL109758, AC005091, AC002430, AC000003, AC005920, AP000303, AC004851, AC004878, L17395, AJ011930, AC006509, Z73417, AC006328, and AC020663.
HCWHJ15	1311	968379	1 - 129	15 - 143	AC009248.
HCWHJ25	1312	686712	1 - 340	15 - 354	AA488432, AA829225, AA458804, AA364315, A1744739, AL041706, A1053644, AA362917, AA528725, AA720702, F28122, H57509, AA654968, AA146625, F33121, AA630362, AA988870, A1051230, A1056964, R99168, R77905, A1460390, AC007387, U95090, AL109654, AL135783, S41998, AC006536, AC007057, AL049872, AP000556, AC011592, AC006441, AP000552, Z85986, AF109907, AP000275, AC002350, AP000105, AP000037, AC006130, AC005694, AC006057, AC004858, AL117338, AC005527, AC004659, AL109984, AC000085, AC006121, AC008134, AL021394, AL031005, AL110502, AC004531, AL035458, L44140, AC005512, AP000692, AC000052, AC007537, AC007363, AC006285, AC006502, AL034451, AC004019, AL135879, AL121790, AC005529, AC002289, AC006277, AP000307, AL022329, AL096702, AC002288, AL133448, AL031587, AC002448, AP000115, AL022316, AL020993, AC007011, AL049797, AC007536, AL022320, AL121653, AL021878, AC005324, AL133382, AF042090, AC001226, AC005330, AL096701, AL021453, AC008064, AL022726, AC006255, AL050323,

HCWHJ48	1313	721816	1 - 340	15 - 354	AL049843, AC006512, AL050318, AF061779, AL022238, AP000114, and AP000046.
HCWHJ53	1314	693313	1 - 411	15 - 425	AC008101, AC008079, AC016027, and AC016830. AA344959, AA831388, AA526193, AW408063, AA483043, AA365571, AA565700, AA302952, AA301813, A1249688, W07122, T41134, AA327572, H12972, AA063426, AA744025, AA516225, AA341120, A1963720, A1355206, R66407, AW019964, A1754105, AA702206, A1198376, AA227162, H59856, AA720746, A1038304, AA610491, AA384039, AA847029, AA737150, A1754567, A1569100, AW192599, AA368329, A1061334, A1755214, AL044000, A1708005, A1061313, A1928790, AA365520, A1569510, A1244356, A1080307, A1678392, A1624698, AA594725, A1281431, AW131356, AA804993, AA828704, A1912322, AA579184, AA747889, N54179, AA298387, H65439, A1886365, AA526755, AW265654, A1921317, N55476, D58782, AA364315, AA757743, A1860020, AA838479, T57604, H72666, C05999, AA838477, A1889794, AA633175, AL120343, AL049795, AC005399, AC004983, AL121653, AL021808, AC005225, Z69921, AC004797, AL132987, AC006459, AP000214, U02057, AL035071, AL049776, AL033392, AF165926, AC007216, AF111168, AC004910, AC005104, AL022320, AB003151, AC005252, AF109907, AC005089, D83737, AL121657, AL023803, AC004460, AL008630, AC004890, AC003101, AC002425, AC002377, AC004470, AL031846, AL031296, AC005231, AC005874, AF134471, AC007738, AC000353, AP000255, AC006312, AF129756, AC020663, AP000354, AC007227, AL049766, AC004400, AF001549, AP000105, AP000037, AP000031, AC004854, AF196969, AC005071, AC007371, AL022158, AC004972, AC006538, AC006047, AC002523, M87914, AC005081, AP000135, U89327, Z93244, AC005772, AC006441, AC005899, M87918, AL022238, AP000692, AC004496, AC003108, Z98050, L78833, AF026069, AP000555, AB017602, AC011362, AC006077, AL031729, Z99128, AP000689, AL031255, AL080243, AF019413, U57007, AL023807, AC004019, AC006111, AL050318, AC005520, AC004463, AC006285, AC002400, AL078639, AC007285, AC007225, AC004259, AC007546, AP000513, AC004812, AC004600, AL034420, AC016025, AF196779, Z97055, AP000509, AP000251, AL034429, AC004216, Z99496, AC006271, AL031005, AC005796, AB015355, AL109759, AC004605, AC004929, AF045555, AC004859, AL049761, AC004841, AC004821, AC006953, AC007263, AL035415, AC007537, AC000052, AL049709, AC005393, AC003839, AC002553, U63630, AC007899, AB023049, AF053356, AC004770, Z93017, AP000141, AP000089, AC004408, AC007308, U07563, AC004066, AL035072, AL121603, AL022325, AC006160, AC005588, AC004585, AC004477, AL034417, AC002126, AL035681, AL121655, AC005768, AC002470, AL035587, AL035448, Z92540, AL023574, AC002997, U73638, AC004973, Z83826, AC002115, AP000512, AC006468, AC002404, AC003070, U66060, AP000211, AP000133, AP000030, U02058, U66061, AC007160, AC003104, AC007533, AC002542, AL109758, Z82176, AL008721, AL049760, AC007064, D26067, AL078476, AL121825, AC007688, AC007632, AP000009, AC006138, AC004802, AP000695, L78810, AC006059, AP000688, AL031428, AC004195, AC007666, AF207550, U91326, AP000350, AC005940, AC004242, AC005747,

HCWHJ55	1315	861884	1 - 719	15 - 733	<p>AC006515, AF015155, Z98048, AP000556, AF067844, AC005668, AC004211, AP000275, AL035659, AL035405, AC005146, AC005370, AL034401, AC006013, AC002985, AC004383, AL021977, AL049713, AL136504, AC005207, AL133485, AC005539, AC004858, AC004771, AC004918, AL049636, and AC005837.</p> <p>AL076616, AL045053, N48230, AL138265, AA130901, AL053790, AL042853, AL355206, AA581903, AA722372, AP63720, AA846876, AL119691, AA584201, AL17516, AW440545, AL374809, AW102955, AA468022, AP951863, AW265393, AL046409, AA877817, AL457397, AL284640, AA126035, AL046205, AW088846, AL732865, AW274349, AA507824, AL042420, AL040921, AW008212, AL305547, AL708009, AA468131, AL1357901, AA703887, AA720702, AL281881, AL270117, F28204, AL132309, AA812139, H08791, AA584195, AA521399, AA623002, AA521323, AL345157, AA515829, AW163293, AL334443, AW021583, AA610491, AA501809, AW169151, AA837677, AW327868, AP956124, AA493471, AL871722, AA491284, AL204304, AL801482, AA490183, AA480772, AW238278, AA311319, AA587604, AL696962, AA515549, AL037683, AA610271, AA126051, AL254316, N94311, AW406447, AL431303, AL133164, AA349366, AW303196, AW265385, AW407578, AA657918, AL445582, AA503473, AL041690, AA478355, AA599480, AL038072, AL038705, AW301350, AW304584, AW270382, AW193265, AW103758, AL368256, AW439558, AL345518, AL471481, AL368745, AL044940, AW062682, AA514854, AL046457, AW028392, AW131249, AL744188, AW020340, AA491814, AA503475, AL138455, AL860020, AA846760, AA703820, N92756, AL133262, AL865905, AL207401, AL799642, AL267818, AL625244, AA569471, AL307608, AL969436, AL249997, AA576336, AW419262, M77974, AL282832, AL370074, AW270270, AA719292, AW410400, AA572713, AA579366, AL119984, AL559705, AA533333, AA908687, AA533036, AA523837, AL580652, AL376100, AP21649, AL890348, AA483223, AL471543, AL053606, AL745325, AL640409, AA631507, AW276817, AL613280, AA515909, N53150, AL608771, AA613203, AL754955, AA531372, AA665021, AL370094, AA349854, T41259, AL564284, AW023672, AA828704, AA502104, AL537955, AL345654, AL538433, AL568678, AA488395, AL048626, AL251436, AW302903, AW302909, AA584082, AL017415, AL538852, AA583955, AA513850, AL119649, AW276827, AL120483, AL370977, AA584145, AA079462, AL061334, AA679514, AA630362, AW072923, AA470969, AA947360, AW302013, AW088202, AA522942, AA714453, AA683258, AL792287, AA781975, AW069769, AA558656, N76673, AL912322, AC000353, AC005332, AC005295, AC004929, U91321, AC008115, AF053356, AC006312, AF045555, AC002565, AC007225, AC007226, AC005529, AC003007, AC005057, AC002476, AL121603, AP000112, AC005072, AL109802, AC007191, AC002045, U63721, AC005696, AL049776, AL121655, U78027, AC007151, AP000045, AP000113, AC007666, AC005412, AC002470, Z98044, AC006449, AC004967, AF038458, Z99716, AL049712, AL022165, AC004167, AC006480, AC004099, U95742, AL031311, AC005089, AC007685, AC006111, AF006752, AL132712, AC005911, U47924, Z97054, AC005015, AL096701, AC005291, AC006130.</p>
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HCWHJ75	1316	786019	1 - 398	15 - 412	

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HCWHJ91	1317	674157	1 - 400	15 - 414	AC005605, AC004908, and AC005604.
HCWHL11	1318	967057	1 - 403	15 - 417	
HCWHL36	1319	465250	1 - 481	15 - 495	W72636, and AA737484.
HCWHL42	1320	959894	1 - 422	15 - 436	AI280574, AI554725, AI436330, AA477517, AA533054, AA213590, AW150387, AA659832, AL040374, T78072, AA663074, AI049931, AC008127, AC013417, AC005726, AC005488, AP000008, AP000704, AC006486, AL022329, AL133396, AF031078, AC006014, AF030876, U73167, U90094, AL008635, AC005924, AL031255, AL035697, AL109758, AC004477, AC007687, Z97053, AC004797, AL031597, AC003665, AC005873, Z92546, Z83844, AL031284, AC002301, AC007899, AL121654, AL133448, AC000035, AC005383, AC003962, AC000044, AL035079, AC005237, AC000034, AC004448, AP000353, AC002425, AC006143, Z82190, AL135783, Z84572, AC008055, AF205588, AC002352, AC004813, AF179633, AL022326, and AC005529.
HCWHL73	1321	960097	1 - 539	15 - 553	AA219247.
HCWHL89	1322	754087	1 - 127	15 - 141	
HCWHN05	1323	849885	1 - 363	15 - 377	
HCWHN28	1324	529654	1 - 318	15 - 332	
HCWHQ38	1325	573533	1 - 413	15 - 427	
HCWHQ45	1326	717807	1 - 436	15 - 450	
HCWHQ78	1327	960180	1 - 337	15 - 351	
HCWHQ93	1328	924109	1 - 381	15 - 395	AL121852.
HCWHP06	1329	935483	1 - 288	15 - 302	AA729468, R10107, W89152, AA383903, W88647, AI910620, AI241829, AA348884, AI473501, AI538106, N77986, W67486, AW198103, H54411, AA320684, N73349, W67485, AI352089, H67251, R99079, AI362519, AA054355, AA583390, AI654404, AA831624, H71523, T83076, R09897, AI149238, AA767864, T95920, AI032114, AI061577, AA045892, AA491889, R34073, AI884375, AI267544, AA515929, W87421, AA297443, AA077228, AI472070, AI479070, AI287788, AA831638, AI824558, AA655007, H12182, AI004220, AA100325, AI275725, AA651647, AW338697, F07225, AI523875, H75392, T89763, AI808173, AI125633, AA582060, AA745570, AA311509, AA669734, AI559178, AA547979, AW051628, AA176125, AA363250.

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HCWHP25	1330	881285	1 - 638	15 - 652	AA203553, AA004349, AA678315, AA507179, R08030, R08080, and AW366361.
HCWHP40	1331	577691	1 - 382	15 - 396	
HCWHP44	1332	705392	1 - 114	15 - 128	AA702353.
HCWHP70	1333	711476	1 - 300	15 - 314	AC007199.
HCWHP74	1334	598510	1 - 423	15 - 437	A1350663, A1016289, AL037105, R59942, AA019396, AP000017, and AP000158.
HCWHP84	1335	849900	1 - 441	15 - 455	
HCWHQ03	1336	924187	1 - 347	15 - 361	AL110456, and AA326002.
HCWHQ31	1337	574945	1 - 416	15 - 430	
HCWHQ82	1338	677186	1 - 439	15 - 453	H98124.
HCWHR01	1339	916526	1 - 422	15 - 436	
HCWHR09	1340	542336	1 - 374	15 - 388	AC005752.
HCWHR59	1341	739293	1 - 572	15 - 586	AW207505.
HCWHR77	1342	729850	1 - 331	15 - 345	
HCWHR81	1343	935419	1 - 359	15 - 373	

HCWHS13	1344	657230	1 - 256	15 - 270
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HCWHS28	1345	675051	1 - 309	15 - 323	
HCWHS77	1346	861875	1 - 337	15 - 351	AC004854.
HCWHT50	1347	527542	1 - 475	15 - 489	
HCWHT56	1348	849979	1 - 353	15 - 367	AC004542, AL049694, AC006112, AL121694, and Z84474.
HCWHT59	1349	924105	1 - 320	15 - 334	
HCWHU22	1350	849878	1 - 330	15 - 344	AB033063, and AR065869.
HCWHU30	1351	974485	1 - 392	15 - 406	N88601, N84855, AA095359, H58760, AA096046, N89520, N83168, AA247964, N83992, AA247827, N83991, N88782, N84048, AA093224, AA096066, AA095641, N84830, N84718, N86694, N87989, AA471338, N55698, N84712, N83993, N88518, N84829, N88496, N87898, AF102850, AF039698, AR066487, AF103726, S78798, U48696, AF045432, U39066, AF032922, and A1243486.
HCWHU47	1352	720340	1 - 306	15 - 320	AI075000, AL049869, AL109623, AC005680, AC004685, AC005233, AC004014, AC000097, AC006547, AC005187, AC007021, and AL035665.
HCWHU52	1353	726054	1 - 163	15 - 177	
HCWHU54	1354	727314	1 - 131	15 - 145	
HCWHU58	1355	736052	1 - 309	15 - 323	
HCWHV11	1356	964996	1 - 254	15 - 268	AW243834, AJ014798, AJ332671, AI590042, and AI679747.

HCWHV18	1357	466511	1 - 329	15 - 343	TR0701, and AL034551.
HCWHV28	1358	686710	1 - 522	15 - 536	
HCWHV33	1359	702437	1 - 243	15 - 257	
HCWHV41	1360	960157	1 - 331	15 - 345	
					R86114, A1383589, R56101, A1801563, A1500151, A1866422, A1547110, A338474, A1754257, A1580480, A1744817, AL044701, AA862218, A1553670, AA586474, R26871, A1797998, AA633804, AW265468, A1002786, N52274, A1446424, AA493808, A1057560, A1445699, A1631299, AW021674, R22196, AW082556, A1702049, AW148821, AW410844, AL022329, AC005037, AL034343, AL049776, AC005914, AC002470, AC005666, AC002369, AC005874, AF134471, AL021939, AL109865, AL034420, AL013287, AC006130, AC007051, AC007919, AC005537, AL109628, AL078638, AC009241, AC006013, AL009179, AC005776, Z95114, AC004139, AL034371, Z97181, Z85987, AC005747, AC007358, AC002310, AL034351, AC005562, AC012085, AL009181, AC004963, AC007376, AC004996, AC006237, AC006006, AF111169, AC006539, Z75887, Z94802, AC007541, AL133448, AL133163, AL132641, AL021918, AC004859, AL008710, AC006966, AC004812, AP000402, Z83822, AC006014, AL121756, AF031078, AC005701, AL121652, D87675, AL035425, AL035461, AL121603, AF030876, AL031767, AL035249, U78027, AC002352, AL009172, AP001054, AL135744, AC005503, AC000372, AL035422, AJ003147, AC004675, AC005763, AC005361, Z99570, AC002477, AC004525, AC003042, AC006511, AL031584, AL021808, AF088219, AC005921, AC004099, AC007533, AC002395, Z69890, AC004686, AL049839, AC005602, AC000088, AC003965, AC005488, AC000071, AC004517, AC004858, AC005082, AC002559, AC004079, AP000501, Z82901, AC006455, AC005969, AL132992, AF165926, AC000405, AC004854, AL109963, AL034423, AL031575, AL050306, AL022476, AC005004, AC002429, AP000289, Z99714, Z98950, AC004900, AP000042, AP000110, AL020997, AL080243, AP000142, AL022328, AC003109, AL049636, Z93241, AC012627, AF109907, AL049759, AL022302, AC007666, AC002544, AC006977, AF190465, AL031311, AC005759, AC004223, M97911, AL139054, AC006468, AC002476, AC004913, AC005221, AC005225, AC004815, AC004924, AL049569, AL049713, AP000347, AL022576, AC004857, AL035587, AP000694, AC020663, AC004583, AC005067, AC009516, Z97183, AC000052, AL031985, AB023048, AC005233, AC007686, AP000346, AC006023, AF047825, AL021407, AC006948, AL079303, AC002094, AL117352, AC002542, AF197228, AC004887, AC005695, AC007537, AC005746, AC005291, U85195, AC005015, AF111167, AC010722, AC004797, U91326, AC004148, AC005355, and AC004453.
HCWHV61	1361	849983	1 - 410	15 - 424	AA059296.
HCWHV64	1362	770049	1 - 407	15 - 421	
HCWHV66	1363	923527	1 - 505	15 - 519	
HCWHV71	1364	917274	1 - 489	15 - 503	
HCWHV94	1365	953379	1 - 360	15 - 374	

HCWHW32	1366	861905	1 - 546	15 - 560	AA629679, AF111168, AF207550, AP000501, and AF111167.
HCWHW38	1367	722213	1 - 286	15 - 300	
HCWHW83	1368	841937	1 - 538	15 - 572	AW023111, AA533054, AL048002, A1281818, H71678, AW150387, AW151247, AA069729, A1791659, AA515728, AW237905, H69523, A1742168, AA315361, AA772906, H29914, A1446259, A1192440, AW245354, AA984920, AA601728, AA584756, AA284247, AW104163, AL040374, AW265688, AA837035, A1310464, A1821931, AP000210, AP000132, AP000248, AC001962, AC010170, AL049589, AP000030, AL133246, U91321, AC004966, AC004938, AL035400, AC005921, AC007308, AL031447, AP000503, AC006515, AL080317, AC000353, AL096791, U95090, AF134726, AL035071, AL035405, AC007052, AC009516, AL021546, AC006965, A1003147, AC006312, AC003684, AL117258, AC005318, AL021069, AC004797, AB000882, AC005046, AF047825, Z83826, AL008730, AC007546, AC006581, AF001548, AC004764, AC006468, AF129756, AC004890, AP000512, AC005231, AC004605, AP000692, AC002310, AC007690, AL031427, AC006480, AL031668, AF001550, AF109907, AL022322, AP000557, AL022171, AC004881, AL117694, AP000038, AC002404, AC005086, AL024498, AC004156, AL035089, AC004882, AC003108, Z83308, AC005529, U52112, AC008040, AC006455, AL031428, Z85987, AP000350, AF064861, Z98946, U50871, Z82189, AL035681, Z82215, AC005527, AC008055, AC006285, AL008729, AL022318, AC016025, AC005288, AC005666, AP000311, AC020663, AL109627, AC008372, AC002477, AC005722, AC003038, AC007057, AL049872, AL096766, AP000558, AC006130, AL133243, AC005907, AC005513, AC005914, AC005015, U47924, AC004686, AL031255, AC004000, AL049775, AC004228, AC004253, AF117829, AC006023, Z82201, AC005736, AC006571, X55448, AL024507, AC006080, AF155238, AL049843, AC006449, AC004525, AL049780, AC004796, AC004656, AC007450, AD000812, AP000049, AL049694, AP000553, AC006262, AP000251, AC004143, Y10196, AC005971, AC005777, AL023575, AL132642, AP000113, AP000045, AL021707, AL050305, AC006441, AC005180, AC007172, AL035683, AL021808, AP000212, AP000134, AC002375, AC004601, L44140, AC004585, AC004832, AC007376, AL021807, AC002126, AC005684, AP000355, AL035079, AC004491, AC007999, AL034548, AC004887, AL034420, AF139813, AC005220, AP000208, AC006121, AL096701, AC006111, AC002301, U52111, AC006208, AC004131, AL021155, AP000247, AC004662, AC007536, AC006317, AL031588, AC005839, AC007537, AC004883, AC004263, AL049869, AC005070, AL022313, AL035086, Z97876, Z97353, AC007055, AC005516, AC005412, AL035420, AC002045, AP000359, Z95114, U95740, AC005229, Z83838, Z85986, AC005740, AC003042, AC005632, AC007292, AC007226, AC006271, AL035684, AL031311, AC005484, U91326, AC004125, AL022476, AL031663, Z93241, AC005874, AF134471, AL031133, AL049636, AC005899, AC007541, AC007845, AB026898, AL035697, AC007242, and AP000688.
HCWHX08	1369	959456	1 - 439	15 - 453	AA605123, A1963720, A1251436, F18638, AA482711, A1061334, A1352078, A1344844, AA493219, A1355206, A1962050, AA843450, A1921649, N43757, AA829106, A1624698,

AA489775, C06327, AA828704, AA581903, AW023672, AA502103, AA665330, AI860020, AA226305, N54894, F30933, AI017415, AA503015, AI138265, AI376100, AL042853, AW242109, AW303196, AW274349, AI053623, AI956124, AA661948, C05755, AA621704, AW301350, AA468022, AI9004894, AI564284, AA348929, AA338486, AI284640, AI043719, AI453383, AA310158, AI567076, AW074059, AA369477, AI356904, AI305766, AI431303, AI151261, AI732120, AI061296, AA483771, AI547286, AW193265, HI13757, AA826303, AA714453, AW247819, AI619997, AI053489, AA542991, AW080134, AI890928, AA810318, AA525824, AW021747, N25303, AW276817, AL037554, AA252763, AA302963, F25867, T90692, AA649642, AI434311, AI061143, H78195, AI132833, AA603445, AA069118, AW193432, AI688846, AW102849, U57007, AF015160, AF015153, A39972, AF015155, AF165926, Z30979, AF015167, AF015148, AC005081, AL023879, AF000940, AC009247, AC006350, AC007216, AC000081, AC004887, AP000248, AC006057, AF068862, U112580, AC007735, AC005944, AL121658, AC006077, AC004647, AC004150, U18396, AC006547, AC004895, AC004797, AF015166, AI246003, AC002378, AP000553, AC002425, AC004678, AC002544, AF015170, AL080243, AC006538, AC006019, AF196779, AF015158, AC010206, AB023049, U18395, AC002115, AC004812, AC006312, AL031846, U73634, AC006571, AC004668, X55926, U18398, AC004913, AL121655, AL022721, AC005004, AD001527, AC011311, AF069508, AC006040, L35531, AL021546, Z69921, AC016025, AL133245, AC004903, AF017257, U57009, U91326, AF024533, AF114156, AC005231, U95742, AC006449, AL132992, U47924, AP001052, AC005037, AC006111, AC006254, AC003104, U57005, AL135744, AC005280, AL121603, AC020663, U85195, AC009516, AL022326, AF109907, U67234, AF015162, AL050321, AL023494, AC002301, AL034549, AC005412, AC006241, AC006486, AC007546, AL022329, AL023553, U18394, AL133246, AP000517, U12582, AL049757, AF088219, AC005212, AL035659, AE000658, AL031685, AL109627, AL035587, X54180, U18391, X55925, X54176, AC002310, AC003041, AC007676, AL031650, AC006285, AC004771, AL031281, AC006251, AC002369, AC006088, AL049776, Z95114, AC007536, AL022320, Z74739, AF045555, AP000359, AC005520, AD000092, AC007666, AC006511, AC004612, AC004972, AC005041, AC005696, AL034420, M89651, AC016831, AC002543, AC008040, AL022302, Z93241, AC004033, AF049895, AF015171, AC006480, AC004448, AC008984, AC006600, AL035422, AC007114, Z83840, AP000512, AP000698, AB001523, Z82190, AL139054, U18392, AC005940, AC005736, AL049759, AP001059, AL109984, AL031594, AC002072, AC004019, AB023054, AC005821, Z97630, AC007014, AC007066, AF107885, AP000513, AP001040, AC006512, AF134726, AC006042, AC006132, AC004263, AC004230, AC005154, Z49235, AL021528, AC005618, AC003962, AC005015, AP000555, U78027, AC005544, Z98050, AC005600, AC005500, AC007243, Z98950, AC002470, AC004673, D84394, AC006539, AC007421, AC003110, AC005722, U80017, AF038458, X54181, X54178, AL031577, U18393, AL096701, AC009509, AC006948, AC006252, Y10196, AC005911

HCWHX09	1370	625596	1 - 339	15 - 353	AC005375, AL031720, AC002091, AL035448, AC004638, AC003101, L35668, Z86090, AC016026, AL022323, AP000557, AL031255, AC002073, AC004890, AC005612, AC005488, and AC007055.
HCWHX72	1371	849884	1 - 351	15 - 365	TS9825
HCWHX91	1372	723178	1 - 286	15 - 300	
HCWHX95	1373	736004	1 - 260	15 - 274	
HCWHZ18	1374	666452	1 - 329	15 - 343	AI268099, and AI702282.
HCWHZ51	1375	725682	1 - 317	15 - 331	
HCWHZ59	1376	739294	1 - 321	15 - 335	AI525565, AL039783, and AA758552.
HCWHZ83	1377	781186	1 - 128	15 - 142	
HCWHZ89	1378	668670	1 - 144	15 - 158	
HCWKA13	1379	494088	1 - 569	15 - 583	
HCWKA21	1380	670897	1 - 254	15 - 268	AJ526203, AI541570, V00116, AF162506, AF162502, AF162504, AF162499, AF162503, AF162505, AF162501, and AF162500.
HCWKA28	1381	466763	1 - 407	15 - 421	AA484648, AA503002, T61555, AP000256, AP000098, U36478, AP000155, AP000014, U91326, AL031659, AC002544, and AC007546.
HCWKA79	1382	574911	1 - 505	15 - 519	AC002040.
HCWKA96	1383	963621	1 - 342	15 - 356	AW183906, AI457975, and AA782016.
HCWKB04	1384	676904	1 - 428	15 - 442	AI299828, N51706, AA936483, R36572, R24933, AI299043, F05240, AI567908, H92474, N51794, AA806500, AA878245, AA482890, AA845639, and AF131763.
HCWKB10	1385	964570	1 - 396	15 - 410	AC004139.
HCWKC83	1386	496385	1 - 138	15 - 152	
HCWKD34	1387	706520	1 - 362	15 - 376	
HCWKF08	1388	959388	1 - 290	15 - 304	
HCWKFP28	1389	686655	1 - 327	15 - 341	AI732327, AW327673, AI872229, AA493464, AI754257, AI521019, AI002950, AA132929, AW419201, AI890297, AW338376, AI171400, AW157128, AA218684, AA557945, AI828721, AI572680, AA493546, AI826857, AW243817, AA661583, AI434103, AA584360, AA425283, AI571094, AI039117, AA084320, N26159, AI270280, AA600127, AA570243, AI754926, T34066, N99245, AW085751, W45215, AA557508, AA629668, AA167656, AA807704, T10218, AA601376, AA489390, AI348780, AI520984, AW029626, AI744890, AA430214, AA493245, AA610245, AW020612, AI568262, AI567676, AI732720, AA152398, AA640305, AI889177, AI925588, AI888050, AW129188, AA455202, AI570067, AI275989, AW162762, AA569220, AA535558, R61887, AI734158, AI343986, AI821605, AA287823, R33588, AI609972, AA369465, AA834891, AI620666, AI125143, AI300608, R54095, AW008217, AA340581, AI433952, AW105729, H05066, AA342029, AI086603, AI734193, AA315052, D29424, AA524604.

				AA969776, AC005516, AL050129, AL050338, AP000116, AC006141, AP000036, AP000099, AL109854, M87914, U73630, AC006511, AC005041, AC002316, Z49154, AL080250, AL135744, AC005531, AC000090, Z98051, L47222, Z97876, AC004098, Z69705, AC004491, AP000954, AP000088, AF207550, AP000115, AL132987, AC004943, AC004673, AP000308, AB001523, AC004754, AL035460, AL031864, AC005015, AC008044, U91327, U71148, AC005412, AC004792, AC005358, AP000048, AL133353, AP000113, AP000045, AC005740, AL022238, AL022149, AC004552, AL109952, AL023803, AC005776, AF064859, AC005180, AF124523, AC004675, AF196779, AL096703, AC007386, AF088219, AC005228, AF134726, AC005102, U91328, AF196971, AC004409, AJ251973, AP000250, AL031588, AL031602, AL096791, AF191071, AL022326, AC004019, AP000030, AC009516, AC010205, AP000354, AC002350, Z98941, AL031311, AP000141, AL139054, AC004000, L47225, AC005519, AC007686, AC004802, AC006013, Z82190, AP000251, AC003982, AK036572, AL020993, AL049694, AL031133, AC004448, AC004967, AC008009, AL031291, AP000557, AC002465, AC005323, AL022165, AC000353, Z83308, AC005921, AC006157, AL033527, AC007401, AP000348, AL031003, AL096776, AC005325, U18270, AC003106, AC002470, Z93017, L78810, AF064858, AL117330, AL031667, AL031680, AP000692, X04981, AC005355, AL022721, AC005670, AC002563, AC003029, U95742, AC005484, AC005837, AC004148, AC004985, M87909, AL035086, AP000133, AP000211, AJ009610, X56997, AC009248, AL024507, AC006050, AL109627, AP001060, AC006162, AC005369, AC002477, AC005908, AC005911, D87675, AC005086, AC005913, AD000812, AC006014, AC007216, AP000466, AC016831, U62317, AP000563, X71874, AL020997, AL109985, AB000931, AC002551, AC005695, AC005856, AC001228, AL008582, AL049646, AC005546, AC006139, AC006323, AC005512, AC003072, AC009247, AC004585, Z98752, AC020663, AC006236, AC005859, Z93241, AC004611, AC006312, AC003108, AC005730, AL096712, AC005253, AC004526, AP001054, AC005257, AL035423, AL050341, Z98750, D16517, AC005377, AL078477, AC006315, AC004655, AC006487, AC006449, AC006121, Z93848, AC003013, AF106656, AC005581, AC000094, U78027, AJ003147, Z93783, AC012627, AC004686, AC006441, AC004263, AC004887, AP000263, L05367, AL121653, AP000359, AL008731, AC002314, AC004999, Z95704, AC004816, AC005768, AC005759, AL034548, AC007676, AC004883, AC002404, AL109984, AC004890, AC004973, AP000280, AC005562, AC007371, AC003110, AC004125, Z99716, AL035658, and AL031255.
HCWK729	1390	779862	1 - 193	15 - 207
HCWKGI0	1391	964577	1 - 369	15 - 383
HCWKH08	1392	959381	1 - 452	15 - 466
				AL079894, F31575, AA758244, AL040038, AA665475, AA772873, AJ049955, AA775205, AA846046, AA704346, AA553513, AA775973, A1933703, A1418232, A1978713, T60316, A1003391, AA828775, T05617, F30586, A1469468, AA587113, A1627917, AA932787, AA719523, AA077886, AA340534, R51882, AA503019, R92248, AA320060, AA558505, C18083, A1453321,

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HCWKH16	1393	661898	1 - 369	15 - 383
HCWKH25	1394	678086	1 - 295	15 - 309
HCWKH36	1395	924191	1 - 287	15 - 301
HCWKJ31	1396	678375	1 - 64	15 - 78
HCWKJ77	1397	920043	1 - 445	15 - 459
HCWKJ92	1398	792689	1 - 466	15 - 480
HCWKJ23	1399	934393	1 - 464	15 - 478
				AI526025, AI541507, AI557804, AI557719, AI526171, AI557741, AI557764, and V000115. AL041690, AI471481, AW261871, AA055169, M86143, AA720702, AI903462, AI334435, AA551552, AA594145, AI432270, AA483223, AA559290, AA503600, AW301302, AA503119, AW050498, AI133297, AA747777, AW023990, AA632612, AW406755, AA493708, AI334443, AA992351, AW103509, AI733755, N27329, AA806796, AA828042, AI358229, F29989, AA587667, T41050, AA810269, AA719805, AW083364, AW083402, AA491814, AA326441, AW273218, AI860020, AL119691, AA533303, H78195, AA502107, AI061334, AL042753, AI754336, AI918421, AI002834, AI382614, AA954936, AI801600, AI580652, AA810370, AA577959, F36306, AW062724, AA652057, AA623002, AA834755, AW118338, AL121385, AA503258, AI358812, AW022406, AA478355, AI866856, AI282511, AA496260, AA533725, AA572713, AA573725, AI732179, AA469451, AA503154, AA535661, AI702314, AA644538, AI049634, AW057877, AA483321, AA480784, AA657535, AA610491, AA071393, AA601876,

AA634889, D82290, AA526342, AA714453, AA502104, AA683258, AA640034, AA531079, A1053406, A1053623, A1863054, AA635105, AW193295, AW265385, H46122, A1368256, AA584581, AA581903, AA847499, D82542, A1110688, AA346458, AA653375, A1301700, A1344844, AA934680, T40617, AA568341, A1355206, AA846952, AW075511, AW276710, AA302963, AA779746, AA614070, A1886629, AA468022, AA828749, A1921061, AA302648, A1963720, A1365988, AA652764, A1434706, AA644909, Z78385, AA782272, AA745406, AA601355, AA569471, A1079389, A1951863, A1283911, AL079812, A1924872, H71429, AA577426, AW247819, AA720758, AA487621, AL046457, AA513136, H70994, A1039790, AA834646, AA665021, AA773902, AA533333, AA488746, AA679124, AC005412, U80017, AC020663, AC004098, L78833, AL121603, AF031078, AP000552, AF030876, AC009516, AC002563, X87344, AC007970, AC005031, AP000103, AC002091, AC004216, Z82976, AC013248, AC006132, AL023575, AC005516, AC005901, Z95115, AC005154, AL034555, AC004638, AC005288, AL031257, AC007917, AC007114, AC007051, AP000548, AL096701, U85195, AC006026, AC006539, AL021397, AC004797, AC002549, AL080243, AC003950, X53549, AP000556, AE000658, U66059, AL031682, U34879, AF064861, AC002395, AF010317, AF064863, AP000555, AC006925, AC004159, AL033522, AL109827, AC005696, Z98304, AC005690, AP000557, Z22650, AL132712, Z49769, AL049776, AC004662, AL021977, AF088219, AC008126, AL136297, AC010072, AP000473, AL035458, AL008629, AL122021, AC006581, AC006271, AL121882, Z86090, AC005212, AL049759, I118388, AC007237, AF002223, AL031733, AC005821, AC004854, AL022323, AC003664, AL035420, AC007684, AC004259, AC005740, AL133246, AL021453, L44140, AL031650, AC007877, AC005294, AC004813, AC005531, AC004600, AC005324, AC002377, AL021154, AC005197, Z98051, AC005765, AL117330, U35114, AL049712, AC004887, AF165176, AL050348, AC007687, AC007731, AC004149, AC005911, AC005565, AC006130, AB020859, AL020993, AL096699, AL008627, AC005500, L29074, AC006318, AC008101, AL049833, AC007245, AC006515, AC004485, AL035587, AC000085, AP000952, AC004686, AC006211, AC005914, AL031591, Z68869, AC000052, AC000353, AF121781, AC004019, AP000567, M37551, AC005694, AC007262, AL096791, AC004134, AC004447, AL122020, AC005249, AP000248, AF190465, AJ133269, Z97053, AC000075, AC004637, AL031277, AL020997, AC005664, AL008723, AC005678, AC004975, AC010200, AL031120, AL022328, AC005599, AC002040, AF029308, AC005019, Z97181, AL032821, AC004755, AC005015, U91321, AC007226, AP000193, AL031427, AC005005, AC006571, U78027, AC004675, D87675, AC007052, AP000353, Z70049, AC006064, AC005527, AL034379, AC004913, AP000050, AC005279, AC002350, AL133245, AL021069, AC005280, AL034449, AC005829, AC005924, AL109628, AP000311, AC004764, Z82244, AC007207, AL031118, AL049544, AL035070, AL021155, AC007666, AC006370, AC007421, AL035494, AC005231, U82668, AP000117, AC002558, U14708, AC009286, S70707, AC004029, AC006285, Z75889, AL009174, AL035422, AC000118, AL049742, AC016025,				
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HCWK140	1400	861851	1 - 397	15 - 411	AR000118, AC006123, AC007066, AC005618, AC002306, AC004889, AC005520, AC003101, AP000228, AC004477, AP001037, AC005225, AL121578, AF129756, AC002509, AC004690, AC008249, AC005495, and AC004821.
HCWK160	1401	968112	1 - 364	15 - 378	T20034, and AL034548.
HCWK196	1402	571302	1 - 291	15 - 305	
HCWK228	1403	849915	1 - 343	15 - 357	
HCWK31	1404	697074	1 - 155	15 - 169	
HCWK358	1405	849934	1 - 393	15 - 407	
HCWK360	1406	740347	1 - 359	15 - 373	
HCWK388	1407	792086	1 - 246	15 - 260	AA535661, F19258, H72666, A1886176, A1923140, AW157326, N99715, AW021917, AA340003, A1721122, AA501872, AA167741, A1761471, C18648, A1358229, AA584749, AA133986, AW339687, AW088058, A1439360, A1635272, AA366820, AW406447, AA332991, A1281903, AL120483, T12272, N23649, A1305766, AW261871, AW439558, F29989, H00934, T40338, AA652057, AA649642, AA377730, T40617, A1053786, AA581342, A1365988, AL133723, T16592, AA489775, AA365347, AA508080, A1863283, AA125788, A1742771, AW008317, A1567786, AA569284, A1561116, F31204, A1914706, H18175, F18974, A1571512, AW074398, R93061, A1049634, AA515128, AA515435, A1375710, AW193432, A1284640, H60239, F25276, AA558697, AA363260, AW304584, N71724, H92005, F35659, AA483204, A1110822, A1446464, AA669251, AW276827, AA558227, AA016286, F28576, A1282907, AA973575, A1569086, AA441788, AW193265, T29180, AW337985, AA682189, A1079910, AW130799, A1445436, AW023270, A1802526, A1064864, A1890052, AA743956, A1963786, A1613280, AA181718, AA780929, AL118911, A1493546, AL079645, A1344844, F36273, F37286, A1521901, AA309485, A1471481, AA919037, AL048925, AL042856, AW193512, AA095511, A1963095, A1879000, AW270284, AW327360, AA745410, T58118, F36306, AA443065, A1688846, AA344959, Z84480, A1246003, AL049836, AL121658, AC002429, AC005386, AC009501, AP000292, AF039905, A1246003, AL049836, AL121658, AC002429, AC005386, AC009501, AP000292, AF039905, AC004650, AL109653, Z93023, AC002981, AP000111, AP000043, AC018633, AC006030, AC004808, AL035411, AC002386, AL022147, AL009051, AL008629, AC005901, AF222686, AL034384, AC009405, AL035090, AL035671, AC004903, AL031116, AL132708, AC005158, AC003029, AC005723, AL049647, AL117693, AL109759, AF053356, AC007036, AC004485, AC004655, AL121603, AJ011930, AL049745, AC004453, AL031432, AC004738, AC006152, AC004069, AL109854, Z94044, AC008012, Z94056, AC002067, AL031602, AC008115, AC006347, AC004901, AC005341, AJ006345, AC004070, AC004072, AL133321, AC000085, AC007625, AC006071, AC005597, AL022165, AC004382, Z93242, AF111168, AC005280, U91322, AL033375, AC006482, AC007172, AL031542, AC002369, AF123462, AL022318, Z98036, AC011604, AC006046, AC006111, Z93928, AL049834, AC008008, AC007102, AC004458, AC005829, AL118497, AL035427, AC005183, AC007207, AC007743, AC004822,

					AP000506, AC005972, AC003016, AF188025, AC009263, Z73416, AC005915, AC004835, AB000882, AC005161, AC006031, AC007055, AC005993, AL009181, AC008033, Z83308, AL008635, AC006257, AL035634, AL133371, AL049777, AL035446, AC007308, AL031643, AC004875, AL049780, AC007632, Z99716, Z93784, AP000359, AC004527, AL034351, AC005826, AC005097, AB020867, AF015416, Z97630, AC005084, AL050333, AF067844, AC004947, AL096707, AL035703, AC005832, AL022329, AC008085, AC004460, AC003664, AC002470, AC005190, AC009241, U59962, AC006057, AL049829, AC004585, AC006966, AL109839, AL133163, AF165926, AC006120, AC005243, AC002091, Z95116, AC003085, U82828, AC006484, Z83838, AC006079, AC004859, AC005862, AF002223, AL023656, AL035425, AL022161, AL109847, AL031686, and AC005678.
HCWKN00	1408	960177	1 - 325	15 - 339	
HCWKN08	1409	959380	1 - 270	15 - 284	
HCWKN57	1410	861537	1 - 398	15 - 412	AA053759, A1452726, AA724782, A1275071, T08298, AA582073, AA953238, A1811302, AA584526, A1147425, A1635247, A1310873, A1345366, AA047715, A1174766, A1921328, N71746, AA758366, AA581329, Z22942, AA654318, A1445088, AA702729, H52562, AA679511, AA741028, AL040170, A1268334, A1268336, C18993, W56883, AA126450, AL138128, AA292178, AW118442, W92132, AW277171, T47909, AA236903, AL036037, T11828, A1913370, A1349849, AW168420, AA683238, AA757775, A1732223, AW128884, AL119691, AW128900, A1732154, AA847181, AW021917, AA857428, AL037952, AL044286, A1590485, AL037383, AA219059, AA487272, AA350349, R02522, AA484373, A1207846, T89952, AA513188, Z22633, A1283456, AA872990, AW021583, A1371429, AA464976, AA454041, T65779, A1094315, AA600869, A1023637, AA136649, AL135377, T61573, AC007036, AC004080, AC004595, AP000301, AP000114, AP000045, AL035403, AC003024, Z95116, AC006195, Z97987, AC004816, AC004912, AC003687, AC004531, AC006037, Z83001, AC010206, AC002319, AC005670, AF110527, AL022333, AL022314, AC006928, AP000346, AF036405, AC004975, AP000495, AC007226, AC009516, Z82190, AC004811, AL122020, AL049781, AL050402, AR038761, AP000253, AP000252, AP000213, AP000135, AC007030, AP000031, AC002381, AC005495, AL031734, AP000298, AF020662, Z75746, L34079, AF039907, AC004196, AC004156, AC000393, AC005387, AP000390, AP000745, U07562, AC005903, AL121588, Z72001, AL035652, AF190641, AL109827, AP000044, AP000113, AP000162, AP000065, AL050341, AL031776, AF191069, AC004068, AL031447, A1239321, AC005887, AL034417, AB001523, AL049694, AL034561, AF207550, AL033377, AC004848, AP000697, AL035246, Z82215, AL035423, AL049636, AL024498, AL050403, AC004695, AC007358, AC005088, AC007879, AC002350, AC007065, U91318, AC002449, AL135783, AC012152, AC005871, AC006040, AC007707, AC005971, AC007298, Z69666, AC007162, AC003090, AC006146, AL031116, AC005668, AC005972, AL121823, Z84718, AL117354, AC008064, AC007917, AC005323, AC005919, AD000833, AP000292, AL049795, AC007099,

HCWKO51	1411	959684	1 - 482	15 - 496	AL035667, AL022400, AC008033, Z98209, AC005076, AC003010, AF129756, AC006430, AP000962, AL050305, AC005071, AC006124, AC006347, AC005754, Z84487, AC004015, AC007686, A1250563, U91326, AF085997, AC004525, AC006985, AL034431, Z93930, AP000510, AP000502, AL008715, AL008635, AC010168, AC004929, AC005215, AC006463, AF118808, AL132992, AC000025, Z83826, AC002994, AC005527, AC006441, AC009721, AC007386, AF134726, AL109985, AC005040, AL022476, AC005529, AP000497, AL022323, M65145, AL031255, AL033544, AC006261, AC006165, AL050334, AB023051, AC002301, AC003983, AL034412, AF064863, AC004655, AL031279, AC005410, and AL009179.
HCWKO82	1412	827083	1 - 314	15 - 328	T65671, AC003030, and AC004539.
HCWKP03	1413	924104	1 - 318	15 - 332	F30824, A1198292, AC004742, Z97053, AC005391, AP000044, AP000112, Z84466, AL050332, and AL050318.
HCWKP51	1414	725653	1 - 333	15 - 347	AL022161.
HCWKP53	1415	664923	1 - 296	15 - 310	
HCWKP56	1416	849861	1 - 386	15 - 400	
HCWKP63	1417	732447	1 - 323	15 - 337	AA584765, Z85986, AC004032, AL022330, AP000462, AB017654, AP000511, and U91323.
HCWKQ31	1418	849851	1 - 533	15 - 547	
HCWKQ55	1419	706487	1 - 406	15 - 420	
HCWKR13	1420	917268	1 - 309	15 - 323	N23693, AA227713, AW304519, N23689, A1054395, N23688, H48670, T05410, AA588242, AA223762, A1537310, A1355513, AW263396, AA736445, AC009247, AC005019, AL096701, AL031291, AC004659, AC002381, AL078638, AL132987, AC004878, AC006101, AL139054, AC002059, AC018633, AC005874, AF134471, AC005839, AC005184, AC005295, AC006211, AL117258, AC005095, AC002470, AC007308, AC002350, AF001552, AC003074, AC010077, AP000512, AC007774, AC007406, AC005988, AC008044, AC005089, AC006948, AC005316, AC002544, AL031054, AC004383, AC004522, AF109907, AC005317, AC006241, AC004966, AC006552, AC004236, AC007161, AL109628, AC002086, AC006480, AC005071, U40369, AC002551, M13792, AF003626, AC006088, AL096763, AC007677, AL022334, AC005519, Z95331, and AF207550.
HCWKR80	1421	527074	1 - 384	15 - 398	
HCWKS13	1422	657194	1 - 299	15 - 313	AW271211.
HCWKT11	1423	966989	1 - 355	15 - 369	AL244254, N22058, AA715418, AA955031, AL078472, AP000023, AC004106, AF003626, AF139813, AP000555, AC004858, AC005277, AL139054, AL022163, AC004228, AL031311, AF109907, AC005972, AL031594, AF129756, AC005666, AC004878, AC004491, AL122020, AL049872, AC005971, AC008119, AC004983, AC006064, AC006111, AP000501, AL033392, AC005288, AL049780, AC004622, AC004913, AC002316, AC005844, AC005829, AL009179, AC005778, AC003025, Z84483, AC004408, AC000085, AC004678, AL109758, Z84467.

HCWKT43	1424	659539	1 - 230	15 - 244	AF134726, AL121653, AL096763, Z93930, AC005668, AC016025, AC003085, AF196971, AL031591, AC005071, AP000692, AL021155, AC007421, AC004257, AC002477, AC004032, AC005663, AC002303, AC007055, AP000512, AC005736, AC005482, AL006791, AC003101, AC005041, AC005015, AP000359, AC005237, AF031078, AB023049, AC007486, AC011331, AF205388, AL031228, AC004552, AF037338, AC006001, AC005632, AF030876, AL033527, AC006271, AL035411, Z85987, AC005874, AF134471, AC006468, U91321, AC005529, AC006480, AL031427, AC004019, AP000502, AL109939, AC004525, AC005180, AC005324, AL009177, AC005081, AP000246, AL031664, AC005399, AP000509, AC002312, AC007845, AF045555, Z98051, AC006120, AL049829, AC005568, AL008715, AL049696, AC003982, AC006160, AL109839, AC005480, AP000032, AC002091, AL035467, AC005215, AC005102, AF001550, AL020995, AC002094, AL133246, AL096701, AC002310, AP000345, AC006277, AL121595, AL080248, AC006530, AC005484, AJ003147, AP000354, AL049569, AC002470, AC004517, AC002400, AL031662, AC005225, AC004895, AC004551, AP000103, Z84487, AC007934, AC002364, AL022329, AC005531, and AL049759.
HCWKT57	1425	881629	1 - 331	15 - 345	AC006014, AC005488, AL049869, U29895, AC005529, AC008372, AD001527, AC005081, Y18000, AC007225, AC005011, AL021155, AC002544, AF111167, AC004526, Z85987, AC006538, AC002470, and Z98949.
HCWKT63	1426	849944	1 - 463	15 - 477	
HCWKV68	1427	959801	1 - 241	15 - 255	
HCWKV77	1428	527554	1 - 388	15 - 402	
HCWKV85	1429	932540	1 - 373	15 - 387	
HCWKX13	1430	466512	1 - 393	15 - 407	AA694449, AA568961, and AL031602.
HCWKX61	1431	676895	1 - 400	15 - 414	
HCWKX68	1432	725014	1 - 345	15 - 359	
HCWKX77	1433	772163	1 - 405	15 - 419	AC007463.
HCWKX81	1434	724873	1 - 437	15 - 451	
HCWLA68	1435	665744	1 - 291	15 - 305	
HCWLD01	1436	916439	1 - 691	15 - 705	AL1476149, AL1476150, AA310216, H90114, AA742815, AA904211, AA468371, T50676, AA468505, AA230025, AA614254, AA228368, N73060, AL050760, AL572680, AA188423, R33091, AL281561, AA224889, AL457313, AL634187, AW069227, T03928, AL431513, AL917132, AA584756, AA302978, AW304637, AL679221, AA171892, AA135761, AL310992, AL300818, AW243808, F29968, AL601229, AA228269, AL628859, AL884522, AA654763, AA728911, AA525753, AW340905, AL583142, AL754653, AA017149, AW028376, AW068008, AW068007, AA297776, F17537, H84412, AL277318, AL271762, AA077776, AA278496, AA493628, AA492524, AL635440, AL473995, AA206707, AW069537, AA557945, AA573062, AA587826,

HCWLD06	1437	935392	1 - 439	15 - 453	<p>AA053136, AI613389, AW028950, F00688, AW194024, T94072, AI267356, AA743968, AI039257, H43771, AA367920, AW067788, AA470512, AW341882, R34070, AA702717, AI872461, H52283, AA827490, AI732502, AA015753, AL050318, I34294, AL109798, AC005081, AC018633, AP000511, AC005495, AL035659, AC004967, AL022326, AP000694, AF165926, AL049872, AC004211, AL020997, AL022333, AC006501, AC005520, AC007384, AP000032, Z85987, AC005774, AC007546, AP000103, AL034420, AB023049, AB023050, AL136295, AC002072, AF178030, AL049712, AC002430, AP000513, AC006241, Z83845, AF111168, U78027, AC002302, AC006449, Z99716, AC006581, AF050636, AL122023, AC004797, AL049697, AL035422, AC004985, Z68276, AL031427, AP000269, AC007193, AC002310, AJ251973, AC005755, AL008723, AL031284, AC002477, Z82208, AC004815, AC002395, AL031685, AB009695, AC007314, AF045542, AC006455, Z95114, AC005874, AF134471, AC003692, AC005519, AC006948, AC006077, AC005781, AC000041, AB020868, AC005015, AF207550, AL049776, AL035072, AC005480, AF001550, AC006211, AL021392, AC006312, AC005815, AP000359, AC005291, L44140, AL035658, AF196971, AC000025, AC002553, AC004024, Z97056, AC004686, AC007993, AL109963, Z54246, Z82215, AC002365, AC004148, AC007130, AC007371, AC004623, U91318, Z84469, Z99129, AL031584, AF001548, AJ003147, AL133243, AL008735, AC006079, AF049913, AL031657, AF024533, AL050337, AP000289, AC005736, AL035413, AL096701, AC005776, AP000042, AP000110, U26425, AB017602, AC007225, AL035587, AC003690, AL031846, AC007687, AP000354, AC006544, U62317, AC005484, AC004922, AC007199, AL034548, AL022165, AC002563, AC003688, AL022316, AC007052, AC005972, AC005070, AL023553, AF053356, AC006966, AC006958, AL034582, AL096791, AL031670, AC005914, AL049713, AL034423, AC005899, AC002425, AC005696, AL024474, AL035455, AL035458, AC004531, AC002985, AL132708, AP000048, AL022311, Z93241, AC006050, AP000348, Z98036, AL022327, AC006126, AC005924, AP000351, AC002059, AC007639, AL121603, AL031296, U62292, AL031577, AL022336, AC004770, AC002544, AC006120, AC007421, AF196969, AC002091, AC004707, AC000085, AL049553, AC002301, AC004755, Z84718, AC000353, AC004655, Z99774, AC003030, AC004675, AC005670, AL049871, Z83846, AL031311, AL022163, AC002316, AP000350, AC005004, AC005046, AF038458, AC004765, AC005911, AC005726, AP000512, U85195, AC004560, AF001549, AL049709, Z84487, AL021878, Z98304, AL035461, AC003007, AP000504, AP000086, AL050341, D89927, AC005759, AC005225, AF111169, AC004150, AL022312, AC004234, AC004477, AC004645, AC005071, AL109628, AP000045, AC004448, AC004884, AL049610, AC005409, AP000555, AC004383, AC003969, AL049757, AL096794, D86995, and AI002059.</p>
	1438	933118	1 - 419	15 - 433	
HCWLD30	1438	933118	1 - 419	15 - 433	<p>AA302812, AL041375, AW340905, AW277174, AI291037, AL047349, AW270768, AA484892, AA630476, AA410788, AA570740, AA483606, AA228778, AA524616, AI199816, AW089625,</p>

AA857812, AA568204, AI061313, AW242031, AI679759, AI984168, AI623764, AW103758, AW265688, AI962030, AA847704, AI355246, AI633168, AI040051, AI653776, AI890046, AA489390, AI572680, AI815210, AW103030, AI431513, N23097, AA468956, AA507499, AA463590, AA558366, AA728911, AW082104, AA904211, AI696878, AA664604, AI148404, AI079901, R44593, AL037910, AI362442, AA158023, AI927275, AI445216, AA599080, AA610381, AI733856, AA582554, AW274078, AI859438, AI357976, AA513916, AA120920, N67313, AA424249, AA558488, AA609834, AW167154, N23913, AW023270, AA572983, AL044966, AA584484, T50676, AI245693, AW189068, AI176604, AI267356, AW026305, AI282479, AI278972, AI421950, AW408767, AI419337, AI598003, AI446623, H47736, AI285696, AI590593, AL119691, H60912, AI590404, AW068853, AI961983, R52008, AW302709, AI830390, AI053673, AA600202, AI417469, AL049694, I95739, Z82214, AC005029, AP000359, AL034417, AC005004, Z98048, AC005231, AC007055, AC003041, AC005043, AF165926, AC007308, AC005089, AC002470, Z99716, AL031283, AL132777, U85195, AL034420, AF196779, Z83847, AC003101, AE000658, AC005726, AP000514, AC005755, AC004526, Z83844, AL049795, AC002316, AL022721, AC006441, AP000114, AL133246, Z93241, L44140, AC002314, AF111168, AC004797, AD000671, AC007536, AC005696, AL034379, AI033525, X55448, AL035587, AC005071, U80017, AC003029, AC004757, AC005261, AP000555, AP000553, AC006530, AC005962, Z97054, AC004760, AB014078, AC005730, AL031255, Z98044, AC002472, AC000025, AC005015, Z93020, AP000046, AP000008, AC004895, U91318, Z93017, AC007160, AL031659, AP000557, AC007193, AC020663, AC006252, AL049776, AC009516, AC004150, AP000509, AC003080, AC007664, AL031277, AC007376, AF019413, AC005399, AC000041, AC002563, AC006111, AL020995, AC005920, Z93023, U78027, AC003007, AC005844, AC004832, AL031767, AL035417, AF129756, AC006014, AL080243, AC002477, AL117694, AL121653, AL049760, AC004814, AL035422, AL031681, AC005940, AC005544, AL049829, AC005324, AC005624, AC005907, AC005280, AC004622, AL078593, AF045555, AL021154, AC016025, AL117337, AC006121, AC005921, AC005145, AL022336, AC004878, AC002351, AP000556, AF196969, AC003043, AL031589, AC005971, AF205588, AC004253, AL024507, AC006057, AC004491, AL022165, AC006141, AL121655, AC007371, AC006146, AL096701, AC007216, AC005409, AC005332, AC006511, AL020997, AC002996, AL031295, AL022313, AC008071, AC007283, Z95152, Z85986, AC006285, AC003992, U91322, AC005081, AC007436, AF038458, U91326, AC004967, AC005899, AC005775, AC004821, AC004099, AC004796, AL008710, AC006116, AC008018, AC004653, AP000050, AL035460, AC002425, AC002288, AC002480, AL024498, AL023575, Z93930, AC007011, AL034549, AC007199, AC004983, AL133448, AL009181, AP000472, AP000117, AC004765, AL021453, AC016830, AL050321, Z84476, AL117351, AC002350, AC006251, AC005881, AP001053, AL133245, AL008730, AC004659, AL031289, AC004913, AL121595, Y14768, AP000011, AP000159, AC006160, AP004596, AC006449

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HCWLD83	1439	728219	1 - 304	15 - 318	
HCWLE11	1440	880982	1 - 399	15 - 413	AI431966.
HCWLE34	1441	576816	1 - 416	15 - 430	
HCWLE37	1442	960093	1 - 400	15 - 414	
HCWLE46	1443	719247	1 - 516	15 - 530	
HCWLE57	1444	764189	1 - 471	15 - 485	
HCWLE64	1445	745863	1 - 300	15 - 314	AA837796, AI521042, AA666066, AI587565, AI587583, AF141309, AC007227, AL020997, AC005231, AC006597, AL096791, AC005972, AC004686, AL021546, AC007845, AC003035, AC016025, AC004703, AP000359, Z93023, AL117328, AC004263, AL009181, U96629, AP000355, AC005015, AL034553, AF061032, AC004796, AD000812, AP000354, AC004041, AC003110, AC006344, AC002091, AC002126, and AL031672.
HCWLE95	1446	684331	1 - 175	15 - 189	
HCWLH02	1447	853014	1 - 688	15 - 702	AL038842, AI049630, AI733856, AA491423, AA528566, AA525517, AI886360, AI707744, AA508873, AI243793, AA857381, AA513189, AA769255, AA283081, AC007055, AC004804, AF019413, AL031848, AC005548, AC007193, Z75407, AL031678, AC007537, AL121658, Z98742, AC008101, AI246003, AC005387, AC004738, AC004491, AC008079, AC005746, AL117354, AC005696, AL121603, AL021155, AC005562, AL035405, AC005409, AL031228, Z84480, AF134726, AC004020, AC005057, AL035089, AC004033, Z95152, AL031295, AC005058, AC005358, AC005015, AC007011, AC005899, AC007160, AL134448, AP000689, AC005180, AB023048, AC004605, Z83846, AC002369, AC004686, Z82176, AC005231, AC004859, AL109628, AP000497, Z93017, AC002316, AC004830, AC005859, AC007283, Z97630, AC005520, AC003029, AC006001, AC005209, U62293, AC002352, AC006271, AF118808, Z75741, AC005620, AL031311, AL121757, AC004797, AC006211, AC002302, M17262, AF124523, AC009069, AL031685, AC004254, AL132712, AB003151, AP000704, Z96074, AC002351, AL109984, AL008719, AC004673, AL109827, AP000556, AC020663, AL031666, AC005529, AL031276, U96629, AC004477, AL031846, AP000692, AC005071, AC002418, AC006120, AC004883, Z95115, AC006026, AL133163, AC003093, AL034548, AF126403, Y07848, AC005740, AL021707, AC004476, AL034423, AC009516, AF111168, AL008631, AF015720, AC003982, AC002299, AC006111, AC007731, AC006285, AC003007, AC005500, AC006077, AL021453, Z82215, AC000026, AC006057, L78810, AL049760, AC003110, AC004531, AC005695, AC004386, U72788, AC006449, AC000353, AC004099, AC006160, AP000500, AC004966, AL008635, AC004856, AL121655, AF139813, U95742,

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HCWLH09	1448	625558	1 - 517		15 - 531
HCWLH20	1449	529356	1 - 336		15 - 350
HCWLH42	1450	954875	1 - 677		15 - 691
					<p> AI791227, AA524604, AI708424, AI141202, AI628922, AL134669, AA663579, AI572680, AA504951, AI791720, AI791408, AL079869, AL119331, AA595370, AA577824, AA454870, AI708663, AW021674, AA723282, AI732327, AI828721, AW238137, AA640305, AI753969, AI745666, AI732720, T59943, AI174827, AW022796, AI889177, AI003086, AI049999, AI890297, AW338376, AA171400, AL042539, AI310464, AI434103, AA601712, AI733523, AW248479, AA218684, AW008217, AI860423, AI734119, AA083320, AI312614, AI044966, AI344906, AI270280, AA569220, AI148840, AI254267, AA643788, AA199578, AI221027, AI884404, AA652675, AW275432, AA330549, AW157128, AL044701, AA629668, F25759, AI872229, H64858, H64884, AW338633, H59797, AI679902, AI925423, AI679394, AI678812, AL036896, AA284638, AI884763, AA618531, AA554289, AI567676, AI678468, AI038029, AA525818, AA470490, AA834891, AI281622, N70293, T03576, AI963816, AA493546, AL133238, U191321, AB001523, AC005288, AC004703, AC004752, Z84474, AC006130, AL021940, AC006581, AL035086, AL021391, Z97054, AC007537, AC005412, AL008582, U80017, AF134726, AC005971, AP000692, AC008372, AC005358, AL132777, AL031587, Z84466, AC005519, Z98051, AL022315, AP000512, AL122020, AC005484, AP000099, AC006162, AF111168, Z82198, AC002310, AF118808, AP000365, AC003982, AL031846, AL031666, AC007226, AC002312, AP000036, AC004125, AC005585, AL121603, AC005180, AC004966, AC008044, AC006197, AC004816, AL049776, AC007878, AP000555, AC006254, AF053356, AC005899, AC004638, AP000503, AC005839, AC005747, AC006121, U63721, AC005829, AC006453, AC009516, AC007376, AC002418, AC004821, AB023051, AL049694, AJ246003, AC005326, AL078593, Z82201, AC004913, AC004890, AC005291, AC007227, AL022323, AC005837, AL031283, AL022165, Z97053, AC005527, AC005280, AL080243, U78027, AC005261, AL031670, AC004832, AC005015, AC005015, AL049759, AL121595, U85195, AC004999, AC007686, AC005529, AC004386, AC007421, AC005666, AL031427, U52112, AL022316, AC005911, AC006511, AC004552, AC005409, AL022163, AC006277, AC006026, U62293, AE000658, Z83840, AC005399, AC006538, AD000092, AL031311, AL034549, Z98200, Z93017, AC006241, AF111167, AC005932, AL049869, AL096701, AC003665, AC006530, AC004796, </p>

HCWLH75	1451	670202	1 - 232	15 - 246	<p>AC002429, AL035422, AC005696, AL035455, AP000359, AL022476, AF088219, AF107885, AC007688, AL034420, AC005037, AC002375, U91325, AC006312, AL035460, AL009181, AC002377, AC005377, AL121655, Z98044, Z98048, AB003151, AC007193, AL008718, AC004659, AL022238, AC004805, AC007934, AC005632, AL049757, AC004673, AC007546, AL121653, AL117258, AL132712, AC016025, U62317, AC005553, AC005531, Z82208, AC006449, AL139054, AC005231, AL022326, A1003147, AF111169, AC004702, AL109952, AC005755, AL022336, AC004671, AC006605, AC005089, AC007051, AC004228, AL035587, AL035659, AC005920, AC004997, AC002477, Z98742, AC006040, AC006344, L78833, AL133448, Z99716, AC003025, AC005907, AC004929, AL020997, A1251973, AC004883, AC005355, AC006509, AC000379, AL050307, AC005057, AP001065, Z95114, AF109907, AP000279, AC004895, AL021707, AF139813, Z83844, AC005730, AC004812, AL023807, AC004263, AC003041, AP000553, AC006006, AC004662, AL024498, AC004150, AC003966, AL031003, AL050317, AP000556, AL035072, AC006001, U47924, AC006120, AL031286, AR036572, U91328, AC006211, AP000350, AC005722, AC007151, AC003957, AC003043, AC007160, AC004859, AC004967, Z92542, AC004491, AC004019, and AC007690.</p> <p>AI884861, C16780, C16638, AI267356, AA224525, AW270429, T02817, AI267450, AW270351, AI859906, T07225, AI084157, AW062363, AA706160, T08386, AA121784, H47368, AI002389, AI690474, AA730336, H38228, AL044177, N38991, AA526401, AI469392, AI889426, AI791227, AI732911, AA995373, F35684, AI984118, F30497, AA078509, AA652763, N29930, AI143653, AW019964, AW342143, N64577, AA598605, AI860535, AA857812, AA186905, H25626, AI537800, H83126, AW104831, AI888298, AI279477, AL021154, U02052, AP000432, AC005940, AL096701, AC005288, AC006130, AC006019, AF124730, AL117354, AC000026, AC004234, AL035695, AC009247, Z93930, AC005740, AL031670, AL031846, AL022165, AC007386, AC006965, AF196972, Z84480, AL022320, AC006255, AC004531, AC006930, AF020503, AP000501, AC004941, AC007283, AL078638, AF001549, U95742, AC005822, Z93016, AC006146, AL022316, AL033527, AL031277, AC007216, AL132712, Z97184, AL031664, AC007388, AC000092, AC006285, AP000466, AC005746, AC002316, AP000555, AC006539, AL034420, AC002059, L47334, AC000052, AC016025, AC005618, AC007376, L48038, AL035072, AF172277, AC002368, AP000550, AC006251, AL023281, AC004973, AL034553, Z83826, AC004967, AL022313, AF047825, AC004019, AC005488, AC005856, AC006538, AC005251, AF196779, AC005154, AC005004, AC006241, AL050348, AC005696, AL035455, AL022323, AL008583, AC004879, AC005911, AF111167, AP000557, AL008582, AC006236, AB023048, L78833, AL110279, AL049830, AC006529, AC000353, AC004020, Z97635, AL034451, AL031311, AL049758, AL035086, AC003965, AC002425, AC003689, AC004799, AL121603, AC005519, AC007358, AC004491, AC007193, AL034369, AC006946, AC008918, U95740, M17262, AP000349, AC007066, AF064863, AL022326, AC006441, AP000553, AC007690, AC002326, AC005913, AC004448, AC005399, AL109657, U91321,</p>
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HCWLH78	1452	935908	1 - 354	15 - 368	AF161019, and AF131890.
HCWLH79	1453	959458	1 - 433	15 - 447	
HCWLH80	1454	577886	1 - 387	15 - 401	
HCWSB09	1455	923573	1 - 235	15 - 249	T06288, A1568754, T51118, AA626678, A1160117, T58567, AA347927, AA633892, A1439360, AA515224, A1872227, A1874231, AC006333, AL008721, AC006975, AC003041, AL035681, AL034351, AC007676, AC006026, AL031657, AC005754, AC000052, D84394, AL096701, AC004019, AL021155, AC007637, AL118497, AL049697, AL080243, AC003982, AC002433, AC004972, AC005778, AC000003, AL022238, AC004890, AL021878, AP000313, AL021808, AC005023, U95740, AL049869, AL035072, AL022316, AP000050, AC021092, AC007064, and AF148319.
HCWSB30	1456	771897	1 - 496	15 - 510	A1914747, H06604, AL096701, AC004491, AC007055, AL023807, AC002559, AC007308, AC002470, AC005632, AC004834, AC004099, AP000344, AC012384, AC004967, AC003071, AC005089, AC003982, AC005189, AL031685, AC005915, Z93017, and AC006441.
HCWSB65	1457	728360	1 - 326	15 - 340	AC007536.
HCWTA02	1458	919258	1 - 341	15 - 355	
HCWTA59	1459	531422	1 - 221	15 - 235	
HCWTB01	1460	861850	1 - 358	15 - 372	AA135868, H73889, AA569179, A1281401, N55456, R48980, AA652949, AA302934, AL041895, A1364568, AA643770, A1800852, A1292317, R35259, H24957, AA247731, H66021, H58970, T06292, AA278496, AL037006, N74027, AA320232, AL036665, AA558487, AA856817, AA504865, AL080317, Z99128, AL034551, AC009223, AC008041, AD000813, AP000502, AF134726, AF126403, AC002116, AC002465, AC004139, AC004257, AL049569, AC003108, AC011331, AC004921, AC007388, AC004883, AC006392, AL031650, AL118516, AC006511, AC005488, AL035682, AL050321, D84394, AP000509, AF196969, Y10196, AP000135, AL121655, U80017, AC008134, AC006273, AC004185, AP000031, AC007878, AC004655, AC004914, AF030453, AC006088, AC004970, AC004671, AD000812, AL050318, AC005088, AL022324, U47924, U63721, AC000379, AL133245, AC007066, AL022315, AC005726, AC005324, AC000086, AL133243, AL031278, AC008044, AC005255, AC002126, AF024534, AC005480, AC020663, AL121653, AL031597, AL009051, AL049759, AC005578, AL008715, AC007360, AP000109, AP000041, AP000044, AP000112, AC005251, AF111168, AC006025,

HCWTB08	1461	920509	1 - 317	15 - 331	Z98052, AL132777, AC005017, AL022163, AP000065, AL035405, U191325, AL096678, AC007226, AF019413, AP000687, Z54072, AC006047, AL031347, AP000513, AC005746, AL034420, AC009510, AC007993, AL022323, AC006509, AC002312, AC005200, AC005332, AC007350, AC004079, AC005049, AC002522, AC004461, U78027, AL035422, AC005277, AC005921, AC005899, AR022785, AC005081, AC004144, AL079342, Z93020, AC005952, AL022330, Z72006, AC005015, AC005544, AL078581, AL117354, AC002558, AC003013, AL049830, AC004228, AC003681, AP000555, AL031311, AP000303, AL031659, Z85986, AC005031, M87889, AC004999, AC005790, AL035088, AC007666, AC006965, AC005089, AF190465, AC005796, AL023803, AC006117, AL034548, U62292, AC004983, AL033521, AL133448, Z96776, AC002314, AF045555, AC004967, AC005670, AC004854, AL031846, AC004477, AC005071, AC004770, AC005747, AC002364, AP001172, AL049749, AL109984, AC005911, AC005300, AC005619, AF152365, AL031774, AC004542, AC004596, AC007011, AC007055, AC004033, AC003950, AC006515, AC006254, AL049856, AC004865, AC007731, Z98744, AC002302, AC002036, Z68323, AC004891, AP000564, AP000353, AL022313, AL109613, AC005519, AC004526, AC005969, AC002540, AC006138, AL035413, AC006146, AC005102, AC006261, AC004851, AL049780, AL110502, Z75407, AP000688, AL050350, AC004966, AC004651, AL246003, AP000347, and Z98044.
					AL057485, N83963, N87188, N83707, AC000693, AF045432, U48697, AL243486, U48696, U39066, AR018815, AF102850, AF001863, AF061744, AF011573, X99056, X99052, Y16299, X99058, X99051, X99055, X99060, and X99057.
HCWTB11	1462	965024	1 - 328	15 - 342	
HCWTB13	1463	861029	1 - 347	15 - 361	
HCWTB14	1464	657621	1 - 315	15 - 329	
HCWTB25	1465	677748	1 - 429	15 - 443	AL045970, AF034803, and AL049694.
HCWTB31	1466	697615	1 - 465	15 - 479	
HCWTB33	1467	702129	1 - 543	15 - 557	AL1341548, AA167659, AA716348, A1798489, AA490183, AW274346, AL345654, AW419262, AL613280, AW193265, AW438643, W47183, AL350211, AL341664, AA446657, AA577906, AA551503, AL375710, AA719805, A1688846, AA973803, AA350859, AA599920, AW193432, AA649642, AA483223, AL121385, A1754658, AA486414, A1792518, AW408707, AA601222, A1962050, AA586458, A1061334, AA970213, A1619997, AW118338, A1002834, A1814735, AW080134, AA828712, Z97196, AC002470, AP000045, AC003957, AC006946, AP000501, Z94277, AC007685, AL049569, AC002531, AC004966, AC007274, AC002347, AC005295, AC005291, AL022315, AC005632, AL023575, AL049795, AL049712, AL035659, AC007191, AC007919, AC002430, AL031666, AL008718, AC005696, AL121748, AC007014, AC000353, AC006241, AC004019, AL133371, AC007384, AL008627, AC018769, AC009247, AC005231, AL080243, AC005900, AC005746, AC004987, AC004884, AL096701, AC005393, AC004584, AC007151, AC007128, AL050342, AP000113, AC005778, AC008372, AC003007, AR036572,

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HCWTB36	1468	529499	1 - 405	15 - 419	
HCWTB38	1469	732440	1 - 340	15 - 354	
HCWTB56	1470	853009	1 - 474	15 - 488	
HCWTB65	1471	861848	1 - 401	15 - 415	
HCWTB77	1472	771887	1 - 434	15 - 448	
HCWTB83	1473	730832	1 - 365	15 - 379	AC005045.
HCWTF05	1474	849954	1 - 304	15 - 318	AC004963.
HCWTF11	1475	966513	1 - 734	15 - 748	
HCWTF19	1476	668358	1 - 353	15 - 367	
HCWTF72	1477	760898	1 - 349	15 - 363	AI679759, AA313133, AA548692, AI065043, AA968509, AI362442, AA092862, AA128969, T60940, T39390, AI624990, AI620548, F00211, W44359, AW029574, AA904211, AI143653, AI289050, AI284092, H25626, AI254508, AI251696, AA302812, AA564256, AA598608, AW054936, F25640, AA814719, AA515929, AL042869, AA021139, AA557984, AA728911, AA857812, AA779018, AA132929, AA633565, AA457482, N57709, AA437402, N73060, AI917053, AI341664, AA700481, AW029269, AI560054, AW080772, AC006241, AC005755, AC004626, AC007066, AD000092, AC007055, AC009399, AL049636, AL031056, AL049643, Z92540, AC007376, U62317, AC005081, AL049779, AC002350, AC010170, AC005180, AC004832, Z98949, AC004686, Z92541, AB009666, AC004938, AC009181, AC005015, AL021393, AL049540, AC004623, AL117355, AC005920, AL035683, AC005071, AC007151, AC016026, AC004983, AL117330, AP000553, AC006285, AC002088, AC005993, AC008064, AC005826, AC005751, AC009721, AC005065, AL049871, AC007041, Z98304, AC007421, AC010582, AL034549, AC004383, AC008000, AC005829, AC022517, AL049780, AL022329, AL008582, AP000692, AC006236, AC005690, AL022165, AC005599, AB015355, AL021407, AL022316, AC002073, AC005291, AC007541, AC006127, AC002563, AL035659, AC006388, AC008124, AC006121, Z98052, AC006539, AC006277, AC006966, AC005231, AC005736, X51956, AL022396, AC000003, AC009738, AL031315, AC002558, AC006323, AC005666,

HCWTG01	1478	915863	1 - 451	15 - 465	AC007766, AC005874, AF134471, AC002476, AP000495, AC005102, AC006077, AC005519, and Z82215.
HCWTG15	1479	659860	1 - 539	15 - 553	T09124, H29110, AC007239, and AL117258.
HCWTG26	1480	681271	1 - 542	15 - 556	
HCWTG30	1481	954579	1 - 184	15 - 198	N83963, AI657485, N87188, N83707, U39066, U48696, AF045432, AJ243486, U48697, AR018815, X99056, X99052, Y16299, X99058, X99051, AF102850, AF001863, AF061744, X99055, AF011573, X99060, and X99057.
HCWTG44	1482	657911	1 - 559	15 - 573	
HCWTG45	1483	662482	1 - 372	15 - 386	
HCWTG60	1484	740078	1 - 372	15 - 386	
HCWTG66	1485	754823	1 - 426	15 - 440	
HCWTG77	1486	924107	1 - 292	15 - 306	H54210, AA594169, T94094, T94176, AI445316, AI762836, AA601422, AI821390, AA054639, AC004263, Z99943, U95740, AL021546, AC004596, AC005412, AL132777, AC005372, AC018769, AC002091, AC006441, AL021394, AC005696, AC008372, Z85987, AL022476, AL008726, Z97200, and AP000556.
HCWTG81	1487	773341	1 - 339	15 - 353	
HCWTI25	1488	669935	1 - 421	15 - 435	
HCWTI33	1489	701757	1 - 321	15 - 335	
HCWTI38	1490	576883	1 - 355	15 - 369	
HCWTI44	1491	689971	1 - 384	15 - 398	
HCWTI47	1492	720023	1 - 341	15 - 355	
HCWTI54	1493	723080	1 - 263	15 - 277	
HCWTJ01	1494	915878	1 - 322	15 - 336	
HCWTJ50	1495	724072	1 - 297	15 - 311	
HCWTL24	1496	676906	1 - 311	15 - 325	
HCWTL25	1497	598511	1 - 428	15 - 442	
HCWTL51	1498	725482	1 - 425	15 - 439	AA493760, AA494202, AA362037, R10297, AC003003, AC004084, AC003669, AP000344, AC004967, and AC003010.
HCWTL52	1499	573539	1 - 321	15 - 335	
HCWTL58	1500	697623	1 - 380	15 - 394	
HCWTL69	1501	960597	1 - 440	15 - 454	AW393605, AIS26146, AIS41503, AIS26179, AIS57778, AIS41501, AIS26154, AIS41531, AIS41493, AIS26185, AIS57718, AIS57740, AIS57747, AIS41516, AIS57797, AIS41487, AIS57735, AIS57779, AIS41515, AIS26178, AIS41489, AB010555, V00124, V00125, J00036, J00037, J00034, J00030, J00038, J00032, and K00133.
HCWTL78	1502	760707	1 - 217	15 - 231	AC004539.

HCWTL85	1503	836155	1 - 426	15 - 440	AA635433, AA302982, T71936, A1249688, A1653525, AA515742, AA603264, A1049643, AA015948, A1587349, R70883, A1245679, AA368659, F31867, AA568204, AA570740, AA483606, T07878, AA229988, T49933, A1198718, AW051819, AA550959, A1289505, AA229159, AW304699, A1038304, AA809153, AA661948, AA516206, A1754567, A1569100, AW192599, N28624, A1754105, A1755214, A1821805, AW028950, AW188742, AW243945, A1791659, A1821056, A1080307, AA666295, AA167293, AA936718, A1792092, AC004216, U91321, AF124731, AC005358, AC002395, AC003070, Z98941, AF111168, AF000513, Z84469, Y10196, AL049776, AC007637, AC004859, AL021394, AC003037, AC004562, AC004913, AL022721, AC004686, AC006479, AF030453, AL049569, AC004765, AC005972, AL022238, AC005251, AC004382, AF001552, AF067844, AC005031, AL035090, AC005212, AC005049, AP000510, AC003954, AC005921, AL021918, AC005231, AC005632, AC007308, AC004832, AC003007, AL049760, Z82244, AF029308, AL109758, Z85986, AF109907, AC004159, AP000501, AC004694, AC005899, AL031431, AC005815, AL080243, AC006455, AC003665, AF196969, AC009509, AC006077, U80017, AL133243, AC006430, AC006050, AC006487, AC006449, AL023575, AC006026, AL121658, AL049709, AC005192, AC005015, AC005081, AL031255, AC004491, AL133245, Z98950, AL121653, AC004020, AL035455, AC007934, AC005325, AC004620, AC004383, AC002312, AL034429, AL109798, AC004816, AC006581, AL031848, AL049694, AC005562, AC006372, Z82198, AC004890, AL034423, AC004797, AC007437, AC004526, AC003990, Z98743, AC005913, AF130343, Z99716, AC005274, Z98036, AC003009, AL031733, AL109827, AL049795, AL031575, AL033530, AC006211, AC007731, Z82181, AC005070, AC007687, Z85996, AP000116, Z98946, AC007899, AC004865, AL109627, Z93020, AC004583, AC005696, AC009721, Z97053, AL031311, AL031681, AC002429, AC004783, AC007388, AF049895, AC005754, AC005160, AC005288, AL035400, AC004477, AL050318, AC007690, AC000379, AC002558, Z97195, AC005412, AC004584, AC004662, AC005901, AL132777, AC005088, Z97054, Z95152, AC002565, AC007617, AC004998, AC005089, AL023553, AP000694, AL049712, AC005829, AL133553, Z99496, AL031121, AC005189, AP000065, AC006007, AC004019, X87344, U80460, AL022336, AL139054, AC002350, AC002044, AL035684, AC006965, AL049872, AC006571, AC009294, AC002347, AC006006, AL139165, Z82188, AC009247, Z84466, Z98200, AC005900, AC003992, AC008134, AB003151, AC003101, AC002059, AC004990, AC007052, AC006120, AC005500, AC005881, AC006060, AC005920, AL034549, AC005225, AC009946, AC007065, AB026898, AL121754, AC005695, AC007533, AC005291, AC020663, AL135783, AL022163, AC005736, A1010770, and AL031286.
HCWTL16	1504	661569	1 - 378	15 - 392	AA852413.
HCWTO06	1505	934912	1 - 347	15 - 361	AA666332, A1287475, H72530, AA640410, AA640430, H93453, A1049508, A1366993, AA536016, AW020893, AA478355, R99851, AW360845, AW376931, A1873852, AA679936, AA704393, W52505, AW168420, A1783581, A1732120, AA680243, R98221, H70076, A1110595,

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HCWTO29	1506	660457	1 - 398	15 - 412
HCWTO35	1507	706525	1 - 379	15 - 393
HCWTO52	1508	726444	1 - 425	15 - 439
HCWTO60	1509	681257	1 - 193	15 - 207
HCWTP13	1510	656678	1 - 361	15 - 375
HCWTP22	1511	674158	1 - 420	15 - 434
				AA843187.

HCWTP76	1512	731438	1 - 515	15 - 529	Z25525, and Z25531.
HCWTP77	1513	529346	1 - 399	15 - 413	AL035443.
HCWTP90	1514	788663	1 - 380	15 - 394	AA410788, AW130427, AA714011, AA583394, AA644090, A1923052, N23504, AA610509, AA574442, AW148507, A1753113, AW023111, AA191418, A1085867, AL040054, A1123396, AA601530, AA449997, A1962030, A1066646, AW238253, AL037910, A1370475, AA533408, AA659232, A1056177, AA659535, AA601327, A1251576, AA578621, A1278972, A1587583, A1587565, A1908093, AA630672, AL037632, AA833896, A1821987, AA714110, A1732869, A1086603, AW302711, AA579427, A1583466, AA833875, AA526683, AA557982, AA847508, AA702729, AA715814, AA570588, AW188427, AA526326, AW190302, A1279417, AA613624, A1016704, A1755202, AA629540, U48696, J00083, M37468, AF031078, AF030876, U67822, AL109798, U67820, AC004216, AC004408, AC002288, AL109627, AC005104, AF134726, AL020993, AB003151, AC000070, AL023575, AC007376, AC002364, AC005102, AC000353, AC005089, AP000502, AC005520, L78833, AC005305, AL020995, AP000691, AC005529, AC005005, AP000076, AC006023, AC005015, AL049757, Z85986, AC004962, AL049872, AF001550, Z95116, Z97183, L11910, AL031680, AP000689, AL035684, AC004050, AC006511, AC009247, AL133448, AL049766, AC004938, AC007690, AC004834, AC005952, AC005180, AC002546, U91323, U07563, Y18000, AF045555, AC002316, AC005988, AC000039, AL022320, AC003043, AL031056, AP000688, AL022311, AL035659, X76498, Z84469, AC004817, AL022327, AC005291, Z49235, AC005057, AC004967, AP000031, AC002395, AC007298, AC005081, AL136295, AL109801, AL121603, AL139054, AC002306, AL031276, U48697, AC006344, AC004859, AL049569, Z82178, AC003098, AC004813, AC007057, Z85987, AC007510, AP000049, AC005581, AC004883, U85195, AL020997, AC005933, AC002072, U47924, AL121769, AC006132, AL034429, AC004644, AC007450, AF053356, AL035587, AC005227, AC006509, AL078638, AC002219, AC003101, AC004525, Z98048, Z98200, AC004821, AC002369, AP000065, AL133163, AL133246, AL078581, AC008040, AP000311, AC005694, AC002472, AC005261, AC007052, AE000658, AL031295, AC007686, AC005722, Z99755, AC005064, AC005884, AC006538, AC006530, AC005667, AL021328, AP000306, AL035420, AC005037, Z82206, AC006239, AC007435, AL008719, AF093117, AC006953, AP000167, AP000120, AP000052, AC002492, AC005014, AF019413, Z98946, AC002404, AL080243, AC006077, AB023048, Z95152, AP000117, AC005071, AL109758, AC007999, AC002563, AC005736, AC004596, AC006211, AC004253, AC005500, AL049692, AC000118, AC007899, J03071, AC004804, AL049776, AC007731, AL022323, AC000004, U07562, Y10196, AC004815, AP000338, AC004797, AC006111, AC003982, AC005940, AL121653, AC012085, AC006121, AC005841, AC006275, Z93244, and AL031662.
HCWTP91	1515	661551	1 - 521	15 - 535	F05533, F05160, AF095687, and AC008039.
HCWTR08	1516	958791	1 - 334	15 - 348	
HCWTR54	1517	729290	1 - 333	15 - 347	AA904275, AA593471, AW020198, AW167154, AA112924, AA381762, H65464, A1285521.

HCWTR77	1518	659506	1 - 380	15 - 394	<p> AI886365, AA808998, AI598003, AW268277, H48546, AW117860, AA365586, AA610255, F32893, AI287964, AA745302, AA664604, AI952786, AA372106, AA310557, AI287921, AI754037, AI859280, AI799421, AL039187, M86058, AW166611, AA779783, F15524, AI014378, F26152, AA381747, AA804925, AI762575, AA574442, T80500, AA342189, AA728937, AA653139, AI452836, AW069450, AA528441, AA076427, AI832865, AI244356, AW383952, AI754689, AI291961, AA569202, AA740403, AI342622, AA59278, AI863399, AA987962, AA837715, AI581486, AI598060, AI471418, AA457754, AW103415, AI016704, H79156, AW180367, AA043218, AC005940, M87914, AC005874, AF134471, AC002565, AC005082, AC007055, AL121657, AC006539, AI006995, AL132987, Z84480, AF053356, AC007226, AC004522, AL136504, AC007151, AF045555, AL035448, AL035405, AL021918, AC005033, AC005954, AP000031, AL031677, AL049780, AL109799, AC005378, AC006137, AC005625, AL031983, AC007263, AL121655, AC002073, AC006544, AC005740, AC006480, AL080242, AL109627, AP000248, AL022332, AC005914, AC002350, AC005081, AL031846, AP000359, AC005924, AC005913, AC008040, AP000354, AL034421, U02068, AC009498, AL031133, AC003083, AC005520, AP000507, AC004921, AL022237, U85195, AC007041, AE000658, AL080239, AB000882, AC020663, AC004841, AC004660, AC004837, AC006468, AC007285, AC007308, AC008033, AL021808, AL121934, AF111168, AC002470, AL031985, AC005358, AC005412, AC002996, Z94056, AJ003147, AC006023, D00591, AC004527, AL035542, AC004049, AC005288, AP000210, AP000132, AF091512, A51133, A76958, AF037222, AL049589, AC005409, Z97053, AL008635, AC004400, M87918, AC005796, AL031428, AC007225, AC004859, AP000694, AC007848, AF002993, AC006538, AC007536, AC006080, Z83826, AC002492, AL031053, AL031733, AC002558, AL049557, AC005803, AL135744, AP000255, AC003101, AL049697, AL121658, AL022320, AL021978, AC007011, AC004741, AP000152, AC006501, AC005800, AC004051, AL034555, AF205588, U73023, AL133448, AL020993, AL133246, AP000213, AP000135, AC005907, Z69917, AC007057, AL035089, AL133382, AC016025, AL049776, AC004685, AC004882, AC005821, AC007687, AC007388, D86566, AC004686, AP000208, AP000130, AL109984, AL031255, AC007270, AL022578, AC005291, AP000247, AL049636, AC005993, AC003688, AC005971, AC002394, AC006449, AC005755, AP000498, AC005180, AC004019, AC000381, AL049759, AC006055, AL031681, Z82206, AC005764, AC004150, AL034420, AF222685, AC007537, AB020858, AL049694, AC006455, AC005274, AF190465, AL035450, AC004996, AC004672, AC007899, AC003663, AC007686, AC004812, AC000015, AL008726, AC007735, Z49237, AL035413, D87675, Z49236, AC000353, AC004771, AC005215, AF038458, AL035587, Z73496, AL008725, AL031666, Z99570, AC006126, AC002319, AP000513, AC006285, AC007707, AC002316, U75931, AC005858, AC004821, AP000512, AC007371, AC004072, AC007993, AC005696, AC006977, AC005513, Z82182, AC007021, and AL022326. </p>
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HCWTS15	1519	654317	1 - 350	15 - 364	
HCWTS84	1520	669926	1 - 348	15 - 362	AB017567, AC005231, AC005911, AL121603, and AC005736.
HCWTT20	1521	669430	1 - 422	15 - 436	AW148697, and N75845.
HCWTT45	1522	576720	1 - 429	15 - 443	
HCWTT47	1523	706527	1 - 342	15 - 356	
HCWTT63	1524	542409	1 - 421	15 - 435	
HCWTT81	1525	712302	1 - 410	15 - 424	
HCWTT89	1526	786693	1 - 393	15 - 407	
HCWTU12	1527	934902	1 - 537	15 - 551	
HCWTU83	1528	780917	1 - 437	15 - 451	AA468131, A1820920, AW303196, A1696962, AL042853, AA493695, A1284640, AA468022, AA507824, AA478048, AW301350, AA478355, A1821670, AW270382, AA478209, AW149313, A1687343, A1873990, AA618452, AW020340, AA857486, AW274349, A1524360, AW302903, AW275510, A1963720, AA568869, AA515334, A1110844, A1369580, AA515549, F12561, AA847952, A1270117, A1499588, F00107, A1311927, F18164, A1457397, AA541423, AA019312, AA683258, AA468244, A1305766, AA523838, AA720702, AW021735, A1216990, AA661921, AW275971, AW301995, AA618349, A1247199, AL042753, AA640410, AA640430, AL046725, AA483771, AA515909, AL037040, A1567076, A1925579, AL038606, AA490183, A1345157, AW023149, AA834707, AW075948, AA580808, AA192740, AW303002, AA178953, H70994, AW245747, AW028429, AA584581, AA908687, AW193265, A1801482, AA491650, AW088846, AA719292, A1053911, AA188664, D44638, AL038072, AA588001, AA551552, A1567842, A1821494, AW163293, A1732865, AA724333, A1281881, AA548058, A1064952, AA521323, AA521399, AW440545, H18354, C04454, AA167055, A1133164, A138455, AA493894, AA631507, AL039145, AA351056, AW340844, A1744826, A1254913, A1056177, A1865905, AA702729, AA780944, A135357, AA523242, AW264934, AW103758, AW069510, AA491862, AA428792, AA410788, AA747070, A1580250, H23653, A134957, AC007444, AL121603, AC006511, AC006371, AC005701, AC004987, AC008372, U95742, AC006965, AC006323, AC005242, AL009029, AP000459, AC007216, AC005194, AL049874, AL035405, AC007274, AC000353, AC006999, AC003003, AL031003, AB020862, AC007376, AF038667, AC009044, AL009179, AC005004, AC006211, AC005772, AC005884, AC007382, AL031666, AC004903, AL132826, Z98941, AC006336, D83989, AC004686, AC005230, AC004861, A1239322, AC006998, AC004531, AF001549, AC005146, AC001020, AC004966, AC007666, AC004650, Z98744, AL035448, AC001231, AC007684, AL050318, AC005209, AC006479, AC005026, AL109985, AC006044, AC004858, Z93023, AL050308, AC005330, AP000055, AP000170, AC007270, Z99716, AC005291, AC003692, AC006058, AC004865, AC005768, AC007298, AC004519, U57008, AC005815, AC002299, AC002984, AC006960, AP000962, AL133445, AC005011, AC006004, AL034420, Z82198, AC005358, AC004611, AC007226, AL031668, AC004010, AC000052, AL118510, AL133399, AC005180, AL031429, AC008079, X54179.

HCWTU84	1529	666642	1 - 153	15 - 167	AC002425, AC005968, AC005567, Z82210, U75931, AL022240, AF196779, AF000049, AL023575, AC004945, AL049869, AL132985, AL049829, AL031446, AC004901, AC005787, AC006203, AC007051, AP000311, AC008055, AF165142, AC002402, AL023579, AF091512, AC004879, AC004690, AL096774, AC007488, AC002531, U18392, AL109865, AL122021, AL031681, AC008064, AL121694, AC007685, AC008080, AC004151, AL109847, AC004019, AC008101, AL136295, AL022163, AC005529, AC004741, AC002312, AL022400, AC005921, AC002558, AL109755, AC002378, AL021877, U62293, AF053356, AC004979, AC006512, AL023755, U81831, AC005193, AF090940, U07562, AC000025, U18394, U91322, AB020859, AC006205, AL008633, AC005527, AP000168, AC010072, AC005535, AC005411, AC004821, AC007263, AF042090, AC003982, Z68756, AL079340, AC006039, AL096712, AC003688, AC007919, AC007324, AC005488, AC012627, AC007011, AC002395, AL031281, AC004259, AC004070, AL023284, AC008009, AL031767, AC008119, X75335, AL049795, AL049797, AJ006996, AC012599, AL078603, AC007021, AC005520, AC005154, AL030997, AC004638, U91319, AC005376, X87344, AL031012, AP000693, AC002289, X54181, U67831, AF049895, AC008127, AL121934, AC007308, AL021808, AC010170, AC004972, AC004600, AL031390, AC005084, AL049709, X76666, AC006344, AC002073, X55926, AL035703, AP000088, U57009, AC002350, AC005253, AC009227, AC002564, AL022322, AC004884, AL023879, U95740, AC000111, AC006285, AF015148, AB020868, AC007848, AL049780, AP000959, and AC006530.
HCWTU84	1529	666642	1 - 153	15 - 167	AL047544, AA291234, AA284361, AW361644, and AB020718.
HCWTV17	1530	725862	1 - 416	15 - 430	N83991, N84712, N88601, N88782, N89520, AA093224, N84830, AA247964, N84855, N83992, N86694, AA095359, AA247827, N84048, H58760, N84718, N55698, AA096066, N83993.
HCWTV62	1531	742696	1 - 564	15 - 578	N83168, AA096046, AA471338, AA095641, N88518, N84829, AA093861, AP000528, AP000529, S78798, AF103726, U48696, AF045432, AF032922, AF102850, AR066487, AF039698, U39066, AJ243486, and AR066480.
HCWTV73	1532	574912	1 - 535	15 - 549	AC006013.
HCWTV88	1533	861846	1 - 543	15 - 557	
HCWUJA19	1534	668355	1 - 399	15 - 413	AL044458, AA610644, H57752, H57751, W27084, A1114772, A1890971, Z99716, AC005180, AL031311, AC006271, AC004883, AC000353, AC007226, Z84469, AC009399, AC005763, AC005015, AD000092, AL031427, AC007993, AC005520, AF111168, AF165926, AC005703, AC006057, AC002461, AC004019, AC004881, AC007666, AL023803, AL050334, AC005011, AC004477, AC007193, AL035420, AC000052, AL031286, AL021707, AC007240, AL109984, AC004859, AC005829, AC005244, AC005940, AC005081, AL049538, AC006449, AC002299, AC004228, U73479, AC006139, AP001068, AL031584, AC008125, AL049872, AL022313, AC007057, AC005231, AC009542, AF053356, AL031678, AC002544, AP000558, AL035423, AJ011930, AC002312, AL008723, AP001053, AC002425, AL023284, AC007421, AC002350,

HCWUA23	1535	577964	1 - 407	15 - 421	AC005243, Z95116, U47924, and AL117352.
HCWUA43	1536	715000	1 - 369	15 - 383	AC005837. T07420, D51809, AA769056, AA808064, AA715709, R82432, T03401, AA715507, AA669616, AA632836, AA411741, W39287, W60522, AA445951, AA427808, F10773, AA812542, AA320941, AA745373, AA461274, AA397415, AA513484, N30876, AA577706, N44146, A1819391, A1903464, AA244267, A1249365, A1174489, A1884922, R53995, AA741403, W96522, AA325787, AA601390, AA343014, T41164, AA610381, N27615, AA470567, AA634926, AA907222, AA594179, AA780906, AA078428, AA487720, AA668166, AA774119, C15362, T41132, AA730359, A1252010, A1252880, A1583448, A1903448, AA355128, H29960, A1799421, AA058499, H94979, AA740571, AA648560, A1130855, AA216375, AA508026, R94909, A1671077, A1929298, A1929825, AA206594, AA376358, AW157180, AA663437, N40760, AL135018, AA635413, AA716440, AA594746, AA598740, AA600127, A1866377, M78065, A1038577, A1933478, AA508444, AA010973, R83878, H53109, H52053, N72439, AA532732, AA084439, AA827383, AA351808, AA653503, N73724, A1872073, AW342143, AA745302, AW272389, AA649488, AC006388, AC005081, Z99127, AB003151, X69951, AB020865, AP000300, AP000045, AP000113, AC006509, L13711, AC002401, L44140, AF111163, Z74739, AC004408, AC004616, AL050321, AF069074, AF125348, AC002425, AC005017, Z94056, AC005338, AP000565, AL008707, AP000557, Z98855, AF181897, AL096843, AL031431, AC002544, M84472, AC004755, U134879, U163721, AL021707, AC000024, D87011, AL078596, U91326, AL031664, D88270, AL050404, AP000563, AP000133, AP000211, AC004687, AF012339, AC005514, AL031602, AC002375, AL034350, AL079303, AC005015, AL096766, AL049761, AC005837, L35532, Z68162, AL031657, Z82203, AC008115, AC006064, AC005280, M22469, M18000, AB022537, AP000353, AP000354, U91323, AC005740, AC009802, AP000556, AF112441, AL031186, AC004583, AC007666, AP000497, AC007510, AL133249, U52112, AC000052, AC005722, AC004019, AR062818, AC005355, AL050332, U89337, AL031672, AL050341, AC002565, AC006146, AC005316, AC005026, AC005011, AC005317, AC007486, AC021092, AC000086, AC006273, AP000228, AP000140, AC006966, AL031005, AC005996, AC004000, L78810, AC005486, AP000088, AF129756, AP000270, AP000032, AP000555, AP000291, AP000256, AC005372, AC005868, AP000098, AP000111, AL034451, AC005208, AC006571, AC007226, AC005846, U17576, AB001907, AF195658, AL023694, AC005543, AL096794, U82668, AL049538, AL035659, Z82195, AC006014, AC004817, Z98044, AL033504, AL121603, AC007993, AC0020663, AC005488, AL049780, AC006530, U68061, U95090, AL049856, AC005775, AC004825, AL021154, AC004253, AL009031, AL021578, AC002326, AL135744, AL050140, AP000699, AB029020, AP000348, U07563, AL049734, AC004659, AL035603, AL132800, Z99716, AC005602, AL035551, AC004070, AC002412, AL035455, U52111, AL021808, AC005747, AL035089, AC007637, AL135960, AJ131016, AL110505, AC004750, AC005568, AC005744, M26434, AL035398, AF045555, AP000502, AP000161,

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HCWUA90	1537	706532	1 - 360	15 - 374	
HCWUB03	1538	923556	1 - 446	15 - 460	
HCWUB08	1539	958770	1 - 392	15 - 406	<p>AI633478, AA652675, AA489390, AL044458, AA693433, AF114095, AI080086, AA630476, AI567976, AI623505, AA369494, T41235, AW162664, AW439455, N24046, AI821287, AA502660, AA502509, AA167178, N70293, AI869094, AW085751, AI014872, AA341391, AA659303, AI821605, AA650288, AI640905, AI625042, AA599712, AA622637, N62478, AL042731, AA507499, AW328185, AI214574, K43468, AA829795, AI690379, AA595661, T62614, AA854460, AA648942, AI500151, AI392771, N92752, AI935827, AI540319, W04238, AA228268, H65404, AI753131, AC005048, AC007964, AL050307, AC004966, Z69650, AC004802, AL078581, AL049843, AC005839, AL050318, AP000497, AL132987, AC005516, AF031076, AL035684, AC004967, Z93931, L47224, L47226, L47226, AC002401, AL031295, AC005288, AC004213, AL022723, AL096716, X59875, AF060911, AC010349, AC004856, L09706, AP000250, Z98272, AC005257, AC005202, Z84721, AP000251, U62293, U63721, AC007536, Z81364, AC003109, Z98051, Z93244, AC005994, AC004874, Z99291, U78027, AC005057, AP000211, AP000133, AP000030, AP000502, AP000065, AL049757, AL035420, AL021393, AL034423, AL008721, AL035458, AL034420, Z98742, Z93017, Z93928, AC002039, AC007845, AL050343, AL035422, AC005343, AC003665, AP000248, U107000, AL024507, AL132716, AL049646, AP001046, AC005137, AL117337, Z98884, AL031584, AP000501, AC016025, AC007686, AL133163, AC005726, AL049779, AC005291, U91322, AC004019, AF205588, AL050323, AC006274, AL133404, Z97183, Z97184, AC004125, AC002504, AC004668, AC002433, AC004962, AL033527, AC004073, AC007879, Y14692, AP000269, AP000103, AP000033, Z97876, AC006162, AL109798, AJ010598, AC005361, AF200465, Z85986, AC004805, X87344, AC004526, AC005681, Z48051, AC002049, AC006125, AC002054, AL049540, AL035588, AL049690, AC002472, AC007664, AC006115, AC008018, AL121652, AL135744, AL049872, AC004000, AC000045, AC005358, AC005180, AB023178, AC003030, AP000152, AP000010, AC005231, AC004850, AC005822, AL049569, AL049776, AF031078, AF209704, AC005484, AF043233, U21936, AR022305, M14949, AF030876, AB007874, M31061, M33764, AC002551, X16277, M81740, X69907, AR007118, AF106656, AL023577, AL031845, U73640, AC005779, AC002103, AC004754, AC007201, AC005175, AC005944, Z81367, AC006167, AC005372, AC000401, AC005937, Z82901, AL049576, AL031321, U71148, AL021453, AC005755, AL133382, AC004776, AC006468, AC004771, Z97352, AL031597, and</p>

HCWUB74	1540	765274		1 - 346	15 - 360	AF000503.
HCWUB83	1541	853008		1 - 434	15 - 448	AA804937, A1554512, AW084364, F03946, AL049761, Z93241, AL049631, AC018633, AC006443, AC004966, AC002045, AC005280, AC005484, AL035450, AC005940, AC005086, AC005562, AL132642, U91318, AL031670, AC006946, AC004217, AC005670, AL050307, AL031577, AL008628, AF047825, AJ251973, AC005305, AC006581, AC009516, AC004967, and Z81365.
HCWUC39	1542	572977		1 - 419	15 - 433	
HCWUC64	1543	588122		1 - 300	15 - 314	
HCWUC94	1544	721663		1 - 487	15 - 501	
HCWUD64	1545	746332		1 - 348	15 - 362	AI902698, AL121235, R76463, A1633479, A1828710, AA679936, A1732120, AA680243, AA478355, AA493894, AA654781, A1873852, AA366312, AL119649, AA018823, F00231, H84435, F00984, A1088768, F05324, A1049508, AL121207, AA618596, AW003867, AA012964, R86218, AA219150, A1536932, C14877, C14616, T84449, AA728990, AC002395, AC005071, AC004656, AC004159, AF038458, AL035405, AC004760, AC010205, AC005409, AC000159, AC005576, AC004983, AC006111, AC006050, Z85986, AC005484, AL121595, U95090, AC004841, AP000365, AF001550, AC004019, AC004253, AC006947, AP006514, AC004084, AC007637, AC006468, AL049781, AL050317, AC020663, AF111168, Z98752, AL034429, AC002404, AB003151, AP000688, AC007308, U73167, U90094, AC005399, AC009181, AL117338, AF200465, AC005619, AL031651, AC006211, AP000010, Z99716, AC007371, AL031311, AC004520, AL080243, and AC005943.
HCWUD83	1546	827340		1 - 429	15 - 443	A1657485, N87188, AA825827, U48697, AJ243486, U48696, AR018815, AF045432, U39066, AL031276, AC004223, and AC004596.
HCWUD85	1547	529221		1 - 282	15 - 296	AC004582.
HCWUD93	1548	574856		1 - 305	15 - 319	
HCWUF05	1549	849929		1 - 213	15 - 227	
HCWUF30	1550	691734		1 - 458	15 - 472	AA585101, A1525431, A1525556, A1540967, A1541374, A1541365, AA585476, Z30131, A1541535, AA585439, A1541514, D61254, T23957, R29445, R28735, T11028, A1546999, AL037436, AL037435, A1541523, A1546891, A1547039, A1525306, A1557731, C16300, T23985, T41289, R29177, A1525316, A1546945, A1526073, Z28355, A1557807, AL040463, AL039915, AL043612, AL041197, AL040155, AL041346, AL041096, AL047012, AL041358, AL041277, AL041163, AL041098, AL040621, AL043538, AL041324, AL040464, AL04162, AL041086, AL043496, AL041296, AL041233, AL043444, A1541307, A1541017, T23888, AL045725, A1525320, AL041140, C16305, AL040193, A1557262, AL047219, AL041227, AL047057, A1526140, AL047170, AL040119, AL047036, AL040553, AL041292, AL041051, AL047183, AL040322, AL041131, AL046330, AL041133, AL041238, AL041142, AL045817, AL040529, AL040625, AL040510, AL043467, AL040149, AL044186, A1557787, AL0404037, AL040091.

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HCWUJF40	1551	703804	1 - 313	15 - 327	AC005913, H18302, AJ231028, E17098, I66495, I66494, AR064707, A22734, AR022273, AR035974, AR035976, AR035978, AJ230951, AR054723, AJ230867, AJ230845, I36244, X55486, AR051864, AR018815, AR051865, A06631, S60422, AJ231011, AF045432, AR063812, A24548, U39066, U48696, A24546, Y14219, U48697, I05845, X82786, AJ230996, AJ244006, X76012, I03669, I03668, A16035, AR009152, I33632, AR001381, X99056, I66481, A83642, A83643, I15353, X99052, A68112, A68104, Y16299, X99058, X99051, AF011573, I66488, I66489, I66490, I66491, I66492, I66493, A83151, E03654, A05993, and A05975.
HCWUJF46	1552	656680	1 - 435	15 - 449	AL135783.
HCWUJF54	1553	933212	1 - 232	15 - 246	
HCWUJF84	1554	686711	1 - 162	15 - 176	AI032481, and AF049579.
HCWUG43	1555	697616	1 - 388	15 - 402	AL035530.
HCWUG59	1556	573548	1 - 396	15 - 410	AL134048, AA248952, AL049742, and AL022240.
HCWUG93	1557	920882	1 - 229	15 - 243	
HCWUH17	1558	662478	1 - 280	15 - 294	AA632445, AI424340, T98279, AA719535, and AC004740.
HCWUH25	1559	677747	1 - 397	15 - 411	AA374775, AI252506, AA643442, AA568298, AI580906, AA834731, H45320, AA223932, AJ471887, AA601318, AI016704, AI057350, AA46767, AA643448, AA643444, AA808796, AA643452, AA643454, AA643457, R95060, AA429371, AW169581, T40452, AA501762, H10143, AI205009, AI340641, AA602438, AA090344, H10859, AL039187, AA812094, AI812082, AW265073, AA630834, AL037040, AA341263, AA814778, AA669434, W69364, AA808263, AI298246, AA610491, AI344812, AI932599, AI334464, AW268973, AA528603, AI754661, AA493864, AA664790, AI277226, AC002364, AC005159, Z93018, AC006213, AL049736, Z99716, AC005972, AF015722, AC007541, AB000880, AC004180, AC004517, AP000507, AB000882, AC004534, AC007556, AL117337, AC007052, AL133445, AL023284, AC008033, AL031132, Z98742, AC005548, AF205588, U91326, AC004448, AC007281, AC007542, AL022313, AL096773, Z85986, AC005901, AL021069, AC004042, AC010206, Z69838, AF196969, AC002544, AC005193, AF165926, AJ229041, U57645, Z82181, Z68162, AF124731, AC006537, AL031257, AC004558, AC012627, AL031904, AF015720, AP000511, AP000097, AL049776, AL079339, AP000154, AP000012, AL034370, AP000961, AC006487, AL080242, AL049635, AC009721, AC004968, AC005288, AC005841, AC002036, AC004099, Z93020, AC004257, AL022237, AC004508, AL109963, AL031055, AL132987, AC005261, Z98950, AC007879, AC003041, AL031659, AC007051, Y11493, AB020715, AC007066, AL031685, AC004024, AP000495, AB016897, AL133163, AL031277, AC005152, AB007955, AL109610, AC006167, AL031057, AC006027, AL021453, AC002551, AL035419, AC006141, AC007324, AL023226, AC005153, AC004849, AC008101, AC004821, AC008079, AC007041, AC006538, AC004125, AC005291, AC004933, AL117342, AC005832, AC005531, AL049777, Z86090, AC005498, AC004934, AC002470, AC004227, AC007240, AF064861, AL033527.

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HCWUJH85	1560	752790	1 - 366	15 - 380	AI460103, AA574077, AL049780, AC007055, Z84469, AC005187, AL133246, AL022163, AP000336, AP000215, AC003667, AP000156, AC004841, AL035653, AC005746, AP000014, Z99496, AC009721, AL021453, AC004024, AC004584, AC004616, AB003151, AP000688, and AL049776.
HCWUJH10	1561	964028	1 - 390	15 - 404	
HCWUJH17	1562	662483	1 - 374	15 - 388	C14614, AI199949, AI189004, AI963797, AA525071, C75012, AJ010597, AC005730, Z69650, AC005516, AC002465, AC005726, Z82190, AC005406, AC005530, AJ006995, U47924, AC006547, Z94277, AC001551, AC005664, AC005859, AC002350, AC005971, AC006013, AL109801, AL049843, AC000075, Z93244, AC005031, Z98950, U80017, AB023048, AP000511, AC002347, AL022723, AC007386, AL122003, and AC004477.
HCWUK13	1563	656679	1 - 378	15 - 392	
HCWUK56	1564	733122	1 - 443	15 - 457	AF186189.
HCWUK77	1565	771883	1 - 513	15 - 527	AC007681.
HCWUK95	1566	615550	1 - 266	15 - 280	
HCWUL03	1567	923572	1 - 478	15 - 492	
HCWUL19	1568	683361	1 - 301	15 - 315	
HCWUL24	1569	968380	1 - 413	15 - 427	
HCWUL32	1570	523358	1 - 301	15 - 315	
HCWUL36	1571	849901	1 - 424	15 - 438	
HCWUL47	1572	720024	1 - 513	15 - 527	
HCWUL69	1573	740373	1 - 244	15 - 258	AI657485, N83963, N87188, N83707, U39066, U48696, U48697, AR018815, AF045432, AF011573, AF102850, AJ243486, AF001863, AF061744, X99056, X99055, X99052, Y16299, X99058, X99051, Y07542, X99060, and X99057.
HCWUL74	1574	690750	1 - 354	15 - 368	
HCWUL83	1575	527566	1 - 543	15 - 557	
HCWUN05	1576	928191	1 - 287	15 - 301	F35659, AW074398, AA308806, AI499094, AW069807, F31204, AA365347, AI110770, AI914706, AA558697, AI284640, AI471481, AA515128, AA228329, F36273, F19258, AA318652,

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HCWUO10	1577	861840	1 - 480	15 - 494	AA584620, AW192373, AL049504, AL917132, AA904211, AL307563, TS6119, AL540840, TS7767, AA158549, AA829044, AL114704, AL792539, AW272294, AA225406, AL049845, AL636734, AA634786, AW082076, AA491767, AL079894, H71678, AW157005, AL917904, AL244157, AL581486, AL800426, AA528390, AA992126, AL801505, AW237905, AL028510, AA564582, AL270370, TS0676, AA158759, AA629836, AA551548, H79308, F33138, AL708005, AA527209, AW028950, AL046519, AW438850, AW438662, AA742815, AW302017, AA714110, F17416, AA570441, AA595661, AA326014, AA297666, F24728, AA468505, AA612727, AL003086, AA657835, AL031759, AA526643, AC006538, AL080243, AF053356, AC002511, AC005722, AL034420, AC005324, AC004797, AC007546, AC008372, AC005015, U91321, AF196969, AC004975, AC006441, AC004787, AL031577, AC006511, AC002350, AC005598, Z98742, AC005529, AC004854, AL022311, Z82245, AC005696, L44140, AL117338, AL035587, AL133353, AC005527, AC004983, AC006057, AP000350, AL031005, Z82184, AL035071, AC006505, AP000359, AF047825, AF196779, AL033392, AC003982, AC003108, AC005666, AC004876, AC004887, AL109627, AC005695, AL031683, AC020663, AL031291, AL096791,

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HCWUQ81	1578	756978	1 - 439	15 - 453	AW440373, AW139492, AC004150, Z98747, AC007204, and AC006539.
HCWUP64	1579	746328	1 - 264	15 - 278	
HCWUQ02	1580	968431	1 - 483	15 - 497	AI657485, AF102850, AF001863, AF061744, AF045432, AJ243486, U39066, U48696, U48697, AF011573, and A70147.
HCWUQ77	1581	719064	1 - 379	15 - 393	
HCWUR43	1582	714529	1 - 542	15 - 556	AI054414, AF001552, AC005209, AC006312, AL022313, AF134726, AL009181, AF109907, AC005940, AL021937, AC002477, Z99716, AC005288, AC004382, AP000553, AF111168, AL022315, AC007227, AP000557, AC004975, D87675, AL034420, AC004922, AL031311, AC004149, AL022320, AC005081, AC006241, U07563, AL031255, AL008582, AC008372, AC004447, AL080243, AL035495, AL022237, AC005696, AC005067, AL031281, AC005300, AC005102, AL031602, AC005057, AF030453, AC004876, AC005565, AL096774, AC004841, AC005264, AC016830, AC005335, AL034423, AC005730, AC003038, AF129756, AC004883, AC006211, U62293, AL133448, AB023049, AC005484, AC004531, U89337, AC005088.

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HCWUR83	1583	958776	1 - 379	15 - 393		AI361673, AC002094, and AC005955.
HCWUR95	1584	711186	1 - 492	15 - 506		
HCWUJ02	1585	919224	1 - 292	15 - 306		AI914239
HCWUJ29	1586	690351	1 - 615	15 - 629		AA165563.
HCWUJ63	1587	542330	1 - 445	15 - 459		AI652927, AB002803, AP000241, AF124731, AP000201, AF000097, and AF026199.
HCWUJ72	1588	855815	1 - 318	15 - 332		AF097485, and AC005089.
HCWUT24	1589	676902	1 - 386	15 - 400		AI653905, H73720, AA080863, AA069022, M78005, AI300507, AL031228, AC006130, Z96641, Z85986, AC005089, AC004106, and Z96498.
HCWUT46	1590	861836	1 - 474	15 - 488		AA122111.
HCWUU04	1591	614859	1 - 348	15 - 362		H82979, F00112, AA662982, AI963797, AA516310, AI199949, AI189004, C14614, AA524604, N59038, AC004242, AC007666, AL031670, AL021918, AC004797, AP000346, AI109914, AC004020, AC003667, AC004019, AC005529, AC006449, AF165926, AC004887, AL008723, AL133163, AC007371, U47924, AC005214, Z93023, AC005288, AC006014, AC007055, AC004477, AC007263, U82828, L44140, AL109623, AB023054, AC006547, U80017, AC005664, AL021707, AC001075, AC004081, AC005071, AL031293, AC005031, Z85987, AC005057, AC005752, AC007686, AF205588, Z93017, AC000003, AC004057, AC004929, Z95113, AL008718, AL121652, AC005317, and AL031229.
HCWUU07	1592	861959	1 - 496	15 - 510		
HCWUU16	1593	661570	1 - 307	15 - 321		
HCWUU58	1594	735736	1 - 223	15 - 237		AA525331, AA431350, AA431634, AA705118, AA526092, AA665517, R79654, W92302, AI733660, AI821775, AA225548, AC007372, AC004802, AC004911, AC006277, AC002395, AC004056, AL133289, AC002394, AL031848, AC004832, AC004752, AL049823, AF019664, AL031657, AL035703, Y13901, AL023807, and AB016897.
HCWUU78	1595	574908	1 - 433	15 - 447		
HCWUV17	1596	662485	1 - 340	15 - 354		AI064787, AA669618, AI560413, H82557, AI525319, AF169482, AA525464, AA765736, AA478355, AA974503, AA737432, AI174766, AA610491, AA502866, AA468131, T47970, AW149313, AI866856, AI223604, AW002350, T86545, AI093030, AA846952, AW023389.

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HCWUV24	1597	676909	1 - 386	15 - 400	AL049775.
HCWUV28	1598	686171	1 - 552	15 - 566	T98176, AF111168, and AL020997.
HCWUV65	1599	676334	1 - 359	15 - 373	
HCWUV76	1600	615554	1 - 337	15 - 351	

HCWLW01	1601	915860	1 - 493	15 - 507	AA368835, H59296, H96676, H85763, H84047, AW069273, AP000331, AP000172, AP000057, AP000125, AC004109, AC007687, AF126403, AL035458, AP000688, AC004801, AL035249, AP000687, Z46936, AC005697, AC002425, AC006132, AC005015, AP000039, AF006501, AC005070, Z98850, AC004582, AC007240, AC005887, AC004854, AC004893, AC007535, AL035079, AC007999, AL031729, AP000280, AL031587, AC007637, Z99291, AL049760, AC009263, Z99497, AC007114, AC005871, AP000107, AL031281, AC002472, AL034561, AP000694, AC007664, AB002059, AC007207, and AC004835.
HCWLW04	1602	614844	1 - 340	15 - 354	
HCWLW55	1603	964086	1 - 538	15 - 552	
HCWLW58	1604	694016	1 - 348	15 - 362	
HCWLW69	1605	882383	1 - 378	15 - 392	AC010436.
HCWLW76	1606	769808	1 - 535	15 - 549	
HCWLW84	1607	782840	1 - 349	15 - 363	
HCWLW90	1608	712303	1 - 365	15 - 379	
HCWLW95	1609	706528	1 - 369	15 - 383	
HCWLX02	1610	852993	1 - 541	15 - 555	AC005247.
HCWUX25	1611	614857	1 - 405	15 - 419	
HCWUX78	1612	773336	1 - 451	15 - 465	WR6785, and R09187.
HCWUY16	1613	661550	1 - 527	15 - 541	AC007708, AC009288, AC008132, AP000550, AP000552, AC007664, AC007325, AC007981, AC008018, AC012330, and AC005815.
HCWUY19	1614	922920	1 - 1082	15 - 1096	AW189204, H64247, R89015, H73207, H62796, H62711, H73281, H95089, T99705, H77855, H77907, R84881, AA203271, and H64246.
HCWUY26	1615	681249	1 - 309	15 - 323	
HCWUY41	1616	711771	1 - 286	15 - 300	
HCWUY69	1617	615630	1 - 538	15 - 552	
HCWVA18	1618	849894	1 - 350	15 - 364	AI499795, and AW002986.
HCWVA25	1619	754314	1 - 187	15 - 201	N88601, N84855, N83168, N86694, AA095359, AA096066, AA096046, N83993, AA247827, N88782, N83992, N84712, N84048, N84718, N88518, AA095641, N55698, AA247964, N83991, N84830, N89520, AA471338, H58760, N84829, N87898, N87989, N56555, AJ243486, U48696, U39066, AF039698, AR066487, AF103726, AF102850, S78798, AF032922, and AF045432.
HCWVA44	1620	716347	1 - 122	15 - 136	
HCWVF94	1621	793533	1 - 659	15 - 673	H57015.
HCWWH59	1622	770274	1 - 438	15 - 452	
HCWWH65	1623	747324	1 - 175	15 - 189	
HCWWH67	1624	772342	1 - 328	15 - 342	AA251067.
HCWWH69	1625	861830	1 - 465	15 - 479	AC002536.

HDCAC05	1626	975255	1 - 457	15 - 471	AL134902, A1142131, AL134536, AL119401, U46351, AL119341, AL134527, AL134526, AL119418, U46349, AL043019, and AR054110.
HDCAD10	1627	963330	1 - 489	15 - 503	AW272294, AA225406, A1870453, A1635028, A1762528, A1133514, AA565319, A1923451, A1860751, A1923458, A1279417, A1587467, AA133332, AA160563, A1282629, AA877992, AW243793, A1192440, AA528503, AA528574, N64587, AC007371, AC006241, AC005081, AC004125, AC005696, AC005015, AC007363, AF001548, AL023575, AC005189, AL022323, Z99716, AL049760, AC006511, AC006441, Z95114, AL049569, AC005082, AC005011, AC002288, AC005874, AF134471, AB026898, AC002404, Z85986, AF196970, AC009516, AC002477, AC004905, Z99128, AC005529, AC006965, AC005921, AC007878, AL139054, AL022313, AL109984, AC007285, AL035071, AL034420, AC002314, AC004813, AL022320, AC005839, AL050307, AC006958, AC006312, AB023048, AC002352, AC007055, AC005280, AL021807, AC004882, AC005089, AL049872, AC004491, AC005484, AP000044, Z98941, AC004895, AC004531, AC006121, AL136295, AC007773, AP000697, Z83840, AP000098, AC005409, AC008009, AL035703, U62631, AC004782, AC000378, AP000209, AL049829, AC004686, AP000112, AC002425, AC005578, Z83844, AL022326, AL049832, AL049780, AC005231, AC004910, AC005527, Z97053, AL031311, AC007327, Z83847, AF067844, AC006480, AC004983, AP000696, AC004903, AC007938, AC005697, AL132777, U47924, AC004805, AL031657, AP000248, AF002223, AC004067, AC005943, Z93016, AL096773, AC004966, AL117337, AC005086, AC005237, AL031848, AC005516, AC005755, AC007182, AC005412, AC003695, AL035209, AC006946, AL021707, AC004655, AC008038, AF196971, AC005519, AL049643, AC007225, AL023284, AF001549, AC000026, AC006512, AF181896, U91322, AC002546, AC003108, AC005520, AL009181, AL049576, Z82244, AC004659, AC004797, AC003962, AC004099, AC004098, AF045555, Z81365, AC010200, AF205588, AP000694, AP000568, Z98946, U91326, AC004854, AC004033, AL034379, AC004821, AP000692, AL031670, AL049776, Z49208, AC000025, Z85987, AF030453, AC005255, AL122020, AE000658, AL031597, AC005537, AL022336, AP000086, AL133245, AP000313, AC004967, U91321, Z98304, AC007637, AC006597, AF047825, AC005971, AC002070, AL022401, AC004743, AC006064, AC005088, Z84469, AL021939, AC005207, AC007193, and AL096766.
HDCAG86	1628	852970	1 - 389	15 - 403	
HDCAP64	1629	922818	1 - 343	15 - 357	
HDCAV79	1630	881404	1 - 483	15 - 497	AL035541.
HDCAY54	1631	959750	1 - 430	15 - 444	
HDCBO38	1632	961931	1 - 214	15 - 228	
HDDMA83	1633	926991	1 - 759	15 - 773	AW371972, AA885936, and AF038963.
HDDNY79	1634	933804	1 - 443	15 - 457	AL049569.
HDDOC53	1635	934157	1 - 879	15 - 893	AF150417, A1888578, A1826769, AW327712, AW168059, AA628915, A1884992, AA761358,

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HDLAC80	1636	799887	1 - 302	15 - 316	AL117585, E08631, U75932, AL137283, AF097996, AL049283, AF111851, M30514, AL050172, U58996, AF079763, AL117649, AF026124, AL096744, I66342, A1005690, A08907, AF207750, AF118064, AF113699, AL137538, AL050116, AL122045, AL050092, AF085809, U00763, U88966, H48979, Y10080, L13297, I26207, AL137640, AL137459, AL050108, A1006417, AL049464, AF118094, AL110196, AL133080, AL122050, AL049314, I17767, I17544, U68233, I92592, Y09972, AL133568, AF079765, AL137292, X98834, A15345, AF028823, I09499, AL137558, AL117440, A52563, AL133606, A08911, AL133560, AL049300, AF067728, AL080074, AL137560, AF069506, X72387, AF137367, AF119358, U42766, AF106862, A93016, I89944, AF078844, U95114, AF118092, AL133098, AL110221, U87620, AF090900, Y07905, AL050138, AL096751, AL117435, U91329, AL110280, AL110218, U49908, I00734, AL137463, AF111112, AL080060, AL137556, AF051325, AL117583, AF159148, I03321, AL117457, E00617, E00717, E00778, AL137656, U80742, AL137550, X65873, AL137548, AF162270, AL137276, AL050277, AL122049, X06146, AF118070, AL050278, AL080110, A1238278, AL133557, X92070, E07108, AL133075, AF158248, AL133014, AL133113, AL080126, AL050393, E01614, E13364, AF036941, AF017437, AR034830, I96214, I09360, A1000937, AL122111, AL049466, Z37987, AF000301, AF125948, AL080140, AF177401, D16301, U35846, AL110222, A03736, X62773, AL137479, AF081197, AF081195, X72889, AR011880, AC004200, AF026816, E01573, E02319, X81464, X82434, S78453, AF113689, AL137526, S36676, AR038969, AF153205, AL117460, AF017790, E01314, AF090903, A07647, AL137641, AL133565, AF061573, AL080163, X83508, M92439, AF061943, I68732, D83032, AL050170, AL137539, AB019565, L04849, AR068751, AR013797, AL133104, AF110329, AL133067, L19437, AL137557, X87582, and E02253.
HDLAD61	1637	775541	1 - 388	15 - 402	AL035461.
HDLAH25	1638	796174	1 - 323	15 - 337	D82449, AA079011, W15176, D82382, D82521, AF077040, and AF073344.
HDLAK03	1639	923285	1 - 201	15 - 215	AA404215.
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							AC018633, AC005951, AC002553, AP000553, AL110502, and AL023879.
HDLAN36	1640	923478	1 - 85		15 - 99		
HDLAO27	1641	787084	1 - 422		15 - 436		AI581067.
HDLAQ50	1642	723854	1 - 307		15 - 321		
HDLAR24	1643	943930	1 - 305		15 - 319		
HDLAV29	1644	922276	1 - 393		15 - 407		AI220255.
HDLBB03	1645	923286	1 - 327		15 - 341		AF162761.
HDMAQ15	1646	941282	1 - 1134		15 - 1148		AI141684, AA242853, AI281834, N50984, AW014432, AA826047, AA977801, AA984041, T64272, AA994205, AA252172, AI361098, T64144, AI280735, AW084330, AA931748, AW071613, R09320, AA448980, AI990634, R19211, AW388104, AI147841, AI198101, AW238793, AI627898, AW074546, AW072130, AI276023, AI394689, AI457707, AI953242, AI539262, AA947158, AA150147, D44958, AA034918, and AC004126.
HDMBH76	1647	883212	1 - 1214		15 - 1228		AA584604, R17976, and AA297873.
HDMBK12	1648	968954	1 - 424		15 - 438		
HDPAA89	1649	693445	1 - 501		15 - 515		H51802, H67354, T67670, AA700794, AB029488, and AC002536.
HDPA803	1650	924124	1 - 356		15 - 370		AL078600.
HDPAI22	1651	674560	1 - 470		15 - 484		AI492865, AA836291, and Z59212.
HDPAE86	1652	709072	1 - 505		15 - 519		H49713, and T87022.
HDPAF70	1653	881626	1 - 452		15 - 466		
HDPA803	1654	771636	1 - 216		15 - 230		AC005946, and AC006272.
HDPA832	1655	947832	1 - 627		15 - 641		
HDPAH10	1656	969041	1 - 516		15 - 530		T97458, AA704961, AA704993, T97730, R09226, AI097092, AI264637, AW440517, T97914, AA203274, AA045417, AA127626, AA308065, T96809, F22528, AA304050, AA082078, AI087224, W39584, AI042559, N32838, AI289816, AI333981, AA513003, AA121528, AA716353, AA302332, AI805206, AA677140, W44935, AI208270, AA112905, AI024761, AI087291, AA448463, AA101212, AI685445, AI094396, AA932240, AA331180, AA062780, N42284, AA045311, and AA973273.
HDPAQ24	1657	677179	1 - 425		15 - 439		AF223944, AF110330, and Z61018.
HDPAS40	1658	860041	1 - 567		15 - 581		AC003004.
HDPAV74	1659	916457	1 - 396		15 - 410		
HDPAZ46	1660	719024	1 - 434		15 - 448		
(HDPAZ73	1661	756742	1 - 496		15 - 510		AI734217, AI830204, AI764987, W20302, AA328526, AI344107, AI668657, R54083, AA334776, AA151813, AI921148, AA815201, AA386170, AA122312, AJ361541, AI284342, AA071290, AI284343, R60683, AA399256, T36239, N23786, T65297, AA779556, AA425224, AA350782, AW004629, AA888883, F02683, F10790, F03793, R41712, H29594, N46213, R39944, R40964, R48971, R44252, R44573, R50366, AF182814, and AJ243721.

HDPBC24	1662	760623	1 - 340	15 - 354	<p>AI401449, AA075859, D26362, AC000391, and AC002323.</p> <p>AJ003449, AI970509, H23104, N45556, AL040461, AI216366, AA927218, AA912892, AL078614, AL137712, and AL109748.</p> <p>AA296462, AA223692, AB023188, Z54728, and Z54729.</p> <p>AI721185, AI066646, AA700943, AW023111, AW070532, AI249997, AI471476, AI362442, AI357628, AI955029, AI305547, AA663074, AI755520, AW089016, AA502207, AL039042, AL039041, AA721722, AI061313, AW028950, AL042373, AA837035, AA602906, AA569402, AI821044, AC005015, AC009501, AC005228, AC004878, AL096701, AC007193, AL049540, AC004813, AC002997, AL021937, AC005914, AC004897, AC005562, AC002381, AL117258, AC005088, AC005747, AC004832, AC006285, AC002544, U80017, AC007308, AC005592, AL034548, AF200465, AC007199, Z86090, AC007546, AC005921, AL021393, AC008033, AL133246, AC006312, AC002316, M63796, AC007226, AF111169, AC006597, AF196779, AC004883, AC004125, AL049843, AL121652, Z93023, AL035249, AL078581, AJ010770, AC004912, AC007227, AC004999, AL049779, AF196969, AL096774, AC005082, AC005031, AL035587, AP000304, AL035413, AC004554, AC004806, AC004686, AF196971, AC002115, AC004796, AC005873, AC007052, AC006948, AF124523, AL121653, AP001054, AC004638, AC006241, AC005102, AC004587, AL022097, AC005786, AP000509, AC005081, AC006430, AC007540, U07000, AF107258, AL133448, AC004223, AC010205, AC006211, AC003109, AL049697, AL121595, AC005412, AL049757, AL117328, AC005844, AC008101, AC005722, U95742, U63721, Z99496, Z83840, AC003963, AC000134, AC000392, U62292, AC005696, AF053356, AC003684, AP000047, AL022318, AL049712, AC005409, AC007011, AL049766, AB023051, AL080243, AC005280, AB023049, AC004953, AF001548, AC004881, AC005500, AC004216, AC004520, AL024507, AC002400, AL022311, AL109801, AC005776, AL133353, AP001053, AL022329, AC006509, AC005209, AC004973, AC004991, AC007731, AC004989, AC007999, AC004263, AC016830, AF121781, AC004383, AC008055, AC005695, U96629, AP000513, AC002091, AC000092, AC004910, AF111168, AL022313, AL049795, AC005920, AC007298, AC002073, AL049650, AL031659, Z98884, AP000115, AC000353, AC003663, AC005089, AL031282, AC004671, AC004025, AL049369, AC006530, AC007041, AC007934, AC007637, AL049869, AF109907, AC005519, and AC004551.</p> <p>AL045848, AA582554, AI832000, AI202085, AI264046, AI251024, AI446205, AW270768, AW008074, AW149975, AI291037, AW302709, AW277174, AW236235, AA219651, AI078409, AI803915, U91326, AC002544, Z93942, Z83826, AP000105, AP000037, AC008063, AC009399, Z93931, AL031286, AJ229042, AL133243, AD000092, AC003962, Z83843, AC004386, AL031728, AC005239, AL021154, AP000150, AC006123, AF107885, AP000009, AC004202, AC002310, AC007565, AL022316, AC007684, AC007676, AF047825, AL020997, AL049776,</p>
HDPBD79	1663	973367	1 - 159	15 - 173	
HDPBJ94	1664	945460	1 - 810	15 - 824	
HDPBM64	1665	773091	1 - 397	15 - 411	
HDPBO71	1666	888109	1 - 301	15 - 315	
HDPBS54	1667	904762	1 - 2050	15 - 2064	
HDPBW10	1668	964553	1 - 460	15 - 474	

					AC006241, AL132712, AC003025, AF139813, AC004770, AC004228, D86991, AC005304, AC002045, AF010238, AL049712, AC002418, AC010170, AC005324, AP000518, AC007528, AC004477, AP000008, AC004024, AC006515, AC000052, AC007129, AL078581, AC002553, AC008372, AP000704, AC006487, Z82900, AL022314, AB023054, AC004019, AL121748, AP000694, AC005620, AC002996, AC003035, AC004859, AF020515, Z83732, AC004011, AL031846, AC005207, AB001523, Z98752, AC004148, and AP000065.
HDPBW26	1669	670345	1 - 240	15 - 254	AC007172, and X84692.
HDPBX82	1670	779848	1 - 533	15 - 547	AI478349, AF624865, and AC005336.
HDPBY23	1671	858345	1 - 505	15 - 519	AA004919, C16939, AW301353, and T06985.
HDPCC48	1672	709005	1 - 423	15 - 437	
HDPCH65	1673	950716	1 - 493	15 - 507	AA284452, and AL135744.
HDPCK27	1674	683383	1 - 450	15 - 464	
HDPCK66	1675	766231	1 - 432	15 - 446	
HDPCK35	1676	973352	1 - 455	15 - 469	AL096805.
HDPEN22	1677	927838	1 - 610	15 - 624	H81040.
HDPEN94	1678	794275	1 - 753	15 - 767	AL122086, AF120323, AB022915, AF120324, and AF121102.
HDPFR34	1679	852871	1 - 327	15 - 341	
HDPFS43	1680	714479	1 - 299	15 - 313	
HDPFV60	1681	720278	1 - 846	15 - 860	AI762468, AA039789, AA039790, AI040678, AW044237, R69130, W80467, R69248, N69997, R66283, R79969, R80067, R66282, R08901, and W80576.
HDPFW90	1682	612234	1 - 427	15 - 441	TR6522, R05896, and R01279.
HDPFY03	1683	924057	1 - 455	15 - 469	
HDPFY43	1684	958157	1 - 468	15 - 482	AF118808.
HDPFY93	1685	571375	1 - 431	15 - 445	N44631.
HDPDI78	1686	773556	1 - 362	15 - 376	AB014599.
HDPDI24	1687	677166	1 - 376	15 - 390	AF150205, R94203, and AF161539.
HDPDI90	1688	735027	1 - 442	15 - 456	AI940403, AC005363, and AC005606.
HDPDL62	1689	691647	1 - 647	15 - 661	AA573618, and U81831.
HDPDL79	1690	774943	1 - 570	15 - 584	AW177005.
HDPDN08	1691	959332	1 - 927	15 - 941	AA216672, AA078092, AA829049, and AC007444.
HDPDO46	1692	719010	1 - 449	15 - 463	AA808002, AA467766, AC007276, AL031650, AL096861, Z84480, AC002525, AL031575, AP000569, and AL035073.
HDPFC15	1693	745045	1 - 195	15 - 209	
HDPFF07	1694	974494	1 - 798	15 - 812	AB033030, and AF151363.
HDPFI21	1695	852824	1 - 376	15 - 390	AL034555.
HDPFQ93	1696	772456	1 - 373	15 - 387	AL049766.

HDPFV55	1697	575202	1 - 544	15 - 558	AA833892, R84376, and AA382114.
HDPFW80	1698	734937	1 - 495	15 - 509	
HDPFY90	1699	788870	1 - 353	15 - 367	
HDPFZ58	1700	735975	1 - 515	15 - 529	AW404640, AF150417, AL023653, and AL049683.
HDPGB73	1701	574603	1 - 355	15 - 369	AL134996, AB018413, and AB011143.
HDPGG28	1702	625678	1 - 446	15 - 460	
HDPGH27	1703	937144	1 - 315	15 - 329	AA362688, AA362690, AA362689, T29199, AL044652, I07209, I07249, AR068508, AR068510, AR067734, AR067731, AR068509, A63954, I09267, I09270, I91969, I09268, I09269, A49701, I09252, I09251, AR067732, A29109, A32111, I66495, AR068550, A23373, AR068551, I66494, E01324, I08638, A94048, A94061, AR035224, A94046, A94054, A94045, I58322, I58323, I66498, I66497, I66496, I66486, I66487, A27169, A27170, A39929, A83151, AR038307, AR038321, AR051528, AR051547, AR051537, AR051524, and A42964.
HDPGI14	1704	415961	1 - 432	15 - 446	AI018392, AA576672, H84975, A1929768, AW157282, AA599045, H77773, AA847622, AA828053, AA826320, AA598731, AC003982, Z84466, AC005102, AC003665, AC002350, AF126483, AC004752, AL022238, Z98257, AC005105, AL135783, Z98742, Z86064, AP000289, AP000042, AP000110, AC007537, AC005581, AC004685, AC005015, AB020868, AC006581, AL080243, AC004000, AC004797, Z82976, AC005971, AC006026, AC005280, AC005736, U47924, AC001234, AC004526, U93305, AL031905, Z83822, AL049874, AL023575, AF060568, AL022717, Z84487, AC006241, AC006011, AC007671, Z99916, AL031673, AP000350, AC005886, AF001549, AL049631, AC005031, U80017, AC007193, AC002477, AC005932, AC002470, AF198095, and AF091512.
HDPGI21	1705	760926	1 - 340	15 - 354	
HDPGI95	1706	919792	1 - 443	15 - 457	
HDPGL65	1707	666830	1 - 515	15 - 529	
HDPGM85	1708	783563	1 - 451	15 - 465	
HDPGO30	1709	780359	1 - 408	15 - 422	AA287508, W15561, and N80792.
HDPGO52	1710	852800	1 - 422	15 - 436	
HDPGP54	1711	464312	1 - 669	15 - 683	AL031123.
HDPGP75	1712	872249	1 - 409	15 - 423	AP000172, AP000057, AP000125, and AP000330.
HDPGT43	1713	495783	1 - 547	15 - 561	AI700109, AA468022, W60328, AC002470, AC005529, AC005666, AF055066, AC009516, AF053356, AL096791, AC007308, AC005940, I147924, AC005071, AC004638, AL022238, AC005690, AC005057, AL008715, AC005527, AC004263, AC004814, AC007919, AC005387, AC005829, AC000353, AF045555, U95740, AC005695, AF207550, AL022724, AC004156, AL031587, AC004921, AC009044, AL031295, AC005914, AF165976, AC007066, AC002378, AL136295, AC012627, and AC005694.
HDPGU50	1714	720595	1 - 330	15 - 344	

HDPGX44	1715	683277	1 - 454	15 - 468	
HDPHB75	1716	915912	1 - 127	15 - 141	
HDPHF59	1717	677172	1 - 211	15 - 225	
HDPHG23	1718	416041	1 - 312	15 - 326	
HDPHG42	1719	732133	1 - 602	15 - 616	AW408550, AW408705, AW407627, C18204, AW401857, AL031733, and AL137762.
HDPHG89	1720	733198	1 - 588	15 - 602	AC005005.
HDPHH51	1721	921093	1 - 471	15 - 485	AA447601, A1769676, A1052170, A1383501, AA416632, T99484, AW237237, AA652361, AA652166, A1202729, AA115105, AA356475, AA828854, and AC005156.
HDPHI02	1722	919825	1 - 448	15 - 462	
HDPHI71	1723	760325	1 - 391	15 - 405	
HDPHI36	1724	706624	1 - 301	15 - 315	
HDPHK96	1725	921957	1 - 815	15 - 829	AA654874, A1380617, AA780933, AW243945, A1355080, A1148557, AA564582, A1718462, AA445908, H73550, AA678616, A1683116, H67649, H48768, AA405549, AA297789, AA086257, AA936718, AA078754, AA599532, AL041682, A1924207, AL042230, A1912401, A1816058, A1732911, AA320105, W04168, AL041681, F35551, AW051819, A1858889, A1053784, A1569401, AA584207, AA878407, AA904211, A1270647, A1061168, A1128969, H97379, AA669054, F31867, AA070330, AA558404, AA493947, AA302982, A1955360, AA471013, AA550757, AA345594, AA715955, A1053688, A1671077, AA425924, A1678992, A1792521, F32040, AW078821, AA572753, R99613, AW390284, A1347665, W81372, H68191, F25666, AA644223, AA460910, A1697425, AA581498, AA586433, F35674, A1472736, A1819262, N40092, I167064, AA019973, AA745552, AW440568, AA635413, AA013168, A1198718, AA460920, A1557422, AA678932, A1818545, A1753887, AA344768, AW081610, AA721523, AA461212, N86362, A1866580, N67313, A1701059, AA513884, A134440, A1570237, A1620354, AA461223, A1889995, F35684, AA058312, AA420723, T17384, AA804334, A1133514, AA126814, AL040521, A1370841, AA831913, AW419389, A1114557, AW275432, AA640310, AA515351, R93919, A1118912, AA652830, A1889579, N58505, AA487300, AW079737, AA601237, AA102737, AA249239, AL044177, A1002709, AA626595, AL121287, A1813783, AA568314, AA355128, AW019964, AL045423, AA504951, AA804297, AW023111, AA583132, T17332, AA551056, AA609826, AC004637, AL031984, AL022330, Z94160, AL133500, AC004032, AC002563, AL031775, AC010582, AL033380, AC006948, AC006276, AC004125, AC008119, AL031432, AC006023, AL031279, AE000662, AC006120, AC004111, Z83846, AL035682, Z98742, AL078638, AC002070, AL133244, AC004943, AL021939, AP000327, AC003108, AC006511, AC008149, AC007684, AC006241, AL021546, AC002303, AP000123, AP000055, D84401, AL132826, AL035588, AL031228, AL049911, AL022576, AL121578, Z70289, AR036572, U91328, U93305, AL049832, AC004601, Z97053, U52111, AC005220, AC002375, AL022721, AC004593, AC003683, Z95115, Z98048, AF196779, AC004820, AC007221, Z92542, AC005969, AC004465, AL050317, AC005495, X51956, AL117694, AC006512, AP000075.

					AC006390, AL022238, AC005215, AC007263, AL049749, Z84480, AC005684, AC002115, Z81008, AC002350, AC005355, AC006361, AL031728, AC006125, AC005487, AC007388, AL031311, Z94055, U147924, AP000496, AC005209, AL020998, AL109758, AC003684, AP000114, AP000046, AC010200, AC003965, AC005379, AL079333, AF196969, AC005225, AC005219, AC005726, Z85996, AC005187, AF015416, AC008989, AC004049, AL035703, AC007151, AC005288, AC005625, AC005568, AC003013, AL049576, AL049869, AC004762, AL031427, AC007663, AC010206, AC005553, AC007225, AF128893, AL109750, AP000049, AP000311, AC007387, AC006057, AL022332, Z69652, AJ012008, AC005061, AC007934, AC003665, AL132796, L31948, D87022, AC004663, AC006600, AL031055, AC004854, AL121588, AL022726, Z69922, AC005514, U63312, AL022395, AC002112, AL132800, AL031121, AL009172, AL117258, AC007279, Z82176, AC004963, AC006205, AC006039, AF047825, Z75407, AL049692, AL049570, AC002073, Z83851, AC007201, AC007358, U144106, AC007617, AC002045, AC005546, AP000504, AC004997, AC002481, AL035462, AC007649, AC004651, AC002314, AC015853, AL031587, Z93242, AC005324, AC004832, AL022069, AC010205, AC007540, X15943, X68793, AF199339, AL023879, AL023883, AC006536, AP000701, AL031258, AP000115, AC005081, AC000003, AL031289, AC005585, AC005939, AL022313, AC004923, AC002455, AC005094, AL135746, AL009181, I34294, AC005391, AF030453, Z84487, AP000304, AC005049, AC005690, AC005728, AC005015, AL022326, AC003010, U73169, AL031665, U93036, AC002385, A1011931, AC005284, AC004019, AC005082, AC006480, AC007023, L43411, AL035416, Z82244, AF111169, Z93023, AF024534, AC004257, AC004760, AC004262, AJ239318, Z84474, AC005839, AL031664, AC004821, and Z70288.
HDPIA15	1726	772020	1 - 588	15 - 602	AI635582, and AL049766.
HDPIC37	1727	954869	1 - 680	15 - 694	AI470828, AA888031, AL120421, AJ229902, AA281976, AA204701, AA424801, AA410294, AA435831, AA397595, and AB002334.
HDPID10	1728	928163	1 - 547	15 - 561	H78846, R97122, AA331528, T85509, AW362954, AI193875, AW362978, AI193991, AA699647, AW362953, AI033788, AW363023, and AC005412.
HDPID37	1729	868169	1 - 554	15 - 568	
HDPID42	1730	713081	1 - 389	15 - 403	
HDPID86	1731	591540	1 - 488	15 - 502	AL120078, N28989, AA206257, AW378916, AL117258, and Y18483.
HDPID48	1732	677664	1 - 511	15 - 525	AL022316.
HDPID26	1733	681519	1 - 515	15 - 529	T84946, AL047527, AL047528, and AC002394.
HDPID55	1734	961163	1 - 458	15 - 472	T81944, T79115, and H63342.
HDPID65	1735	747791	1 - 426	15 - 440	AI732675, AA469134, and AA420876.
HDPID53	1736	926498	1 - 371	15 - 385	
HDPID61	1737	741724	1 - 408	15 - 422	AC004126.

HDPJA04	1738	628745	1 - 318	15 - 332	AW245495, AL046917, AW402628, H01107, AR012155, AB018357, and AB026628.
HDPJA26	1739	767110	1 - 455	15 - 469	AW161353, AW161055, AF150432, AL136504, AF189723, AF181121, AF181120, and M93017.
HDPJB08	1740	921453	1 - 403	15 - 417	
HDPJ05	1741	911170	1 - 2858	15 - 2872	AA005416.
HDPJK06	1742	852781	1 - 438	15 - 452	AI928173, and Z95115.
HDPJK73	1743	765446	1 - 403	15 - 417	
HDPJN68	1744	752907	1 - 314	15 - 328	T34282, T18874, AA983199, AI491817, AA579179, AA630672, AA010299, AI818231, F05641, AA425118, R12156, H15474, AI207363, AA513893, AL041373, AL041526, AL041527, F13380, AA410788, AA584170, AW022608, AI733856, AI056177, AA506744, AC005411, AC002431, AC009516, AC006552, AC006390, AL031432, AC004983, AL031283, AC005046, AC005953, AP000348, AB000931, AL035420, AL049830, AC006501, AC005756, AL031279, AB009667, Z83845, AL022237, AC004841, AC006312, AC005800, AC004812, AC002550, AC006313, Z69706, AC004534, AL078638, AL117694, AL022316, AC005071, AC002549, AC002070, AC006012, AC005305, AC012384, Z83856, AC003029, AL031466, AC007842, AF088219, AC012627, AC004675, Z84469, AC005759, AC006117, AC006480, AC002996, Z84483, AL031680, AC005837, AL133396, AL122020, AC005412, AC006120, AC005703, AC008975, AC004985, AC003080, AC005670, AL137191, AB023049, AL031591, AC006371, AL023913, AC002525, AF114156, AC005520, AP000281, AC004552, and AC007435.
HDPJO40	1745	711003	1 - 359	15 - 373	AA578690, and T05118.
HDPJP32	1746	918630	1 - 476	15 - 490	AF104015.
HDPJP79	1747	538038	1 - 465	15 - 479	AI110883, and AC002476.
HDPJR11	1748	965011	1 - 329	15 - 343	AW204366, AA865368, AA442937, AA436769, and AW197446.
HDPJU86	1749	785391	1 - 743	15 - 757	AI703393, AI656220, AI457528, AI214558, W15512, AA888880, W39617, AA995374, N56658, AI202894, N47548, AI916559, H06953, R54815, R45929, R45928, T27096, AI203071, AA782845, Z41377, F04514, N30325, and N47547.
HDPKD52	1750	959653	1 - 1159	15 - 1173	T20100, and AC003070.
HDPKD82	1751	778970	1 - 374	15 - 388	
HDPKJ40	1752	710991	1 - 355	15 - 369	
HDPKK25	1753	677921	1 - 551	15 - 565	AL031668.
HDPLB25	1754	965139	1 - 430	15 - 444	H47933, N99775, AW391235, and R58738.
HDPLC45	1755	909091	1 - 816	15 - 830	AI445866, AI816830, AA639828, R41845, AA258158, Z41214, H06057, F02752, T11904, and AL050333.
HDPLC60	1756	740144	1 - 382	15 - 396	
HDPLD11	1757	966610	1 - 430	15 - 444	AL120898.
HDPLD29	1758	690409	1 - 431	15 - 445	
HDPLD57	1759	734528	1 - 412	15 - 426	

HDPLD89	1760	786704	1 - 421	15 - 435	
HDPLE38	1761	706639	1 - 345	15 - 359	R58132.
HDPLE63	1762	703477	1 - 433	15 - 447	AA62326, A1267274, A1183572, and AB020719.
HDPLE75	1763	832685	1 - 447	15 - 461	
HDPLE88	1764	625293	1 - 323	15 - 337	
HDPLE96	1765	915966	1 - 437	15 - 451	
HDPLF86	1766	785316	1 - 619	15 - 633	AA181731, A1343501, AL137607, AF109219, AB030280, AB030279, AB030316, and AB030312.
HDPLG10	1767	964213	1 - 402	15 - 416	H45885.
HDPLJ28	1768	840111	1 - 145	15 - 159	AW085622, AW135279, AA779541, A1627872, N51608, AA382892, A1272986, AA416724, AL045453, A1440260, AW082088, A1249877, A1589428, AL037602, AL046466, AW029611, AW104141, A1921379, AW089351, A1280751, A1285432, A1873923, A1590043, AW075522, A1680066, AL037582, A1347701, AW129106, AW172981, AW079119, A1956086, A1797908, A1698391, A1273901, A1537244, A1500504, AW074763, A1866503, A1673363, A1673278, AW051088, AW193231, A1432644, AW020397, AW074172, A1345415, A1889189, A1472566, A1633125, A1538564, A1815232, A1915291, A1491710, AW152182, AA928539, A1521799, A1884318, F27788, AW006032, AW130134, A1559524, AW087455, AW080746, A1345688, A1582912, AW163554, A1522052, A1697207, AA019328, A1859991, A1610690, A1249257, A1951868, A1963625, A1241744, AA862606, A1579901, AW105383, A1499890, A1866801, A1432030, AW104827, A1096481, A1580694, AW083374, A1500714, A1690748, A1670009, A1376872, A1679796, AA279795, AA580663, A1559555, A1890533, A1633062, AW148408, A1818683, AW104724, A1612852, A1922707, A1573032, A1962858, AW167083, A1583065, A1537024, A1648567, A1570909, A1435268, A1378080, A1538885, A1269862, A1538716, AW104062, A1636309, A1679672, A1580435, AW150225, A1631095, A1538850, A1362248, A1580451, A1312542, AW191844, A1684305, AW303089, AW131139, AA641818, A1559619, A1921464, A1267185, AW170673, H89138, A1523964, AW265004, A1961393, AA693331, A1624084, A1611743, A1912356, AW081322, A1621341, AL041105, A1452560, AL047344, A1687295, A1799313, A1366900, A1540674, A1473536, AA761557, A1866469, A1564723, AL048656, A1446124, AW151847, A1803778, A1016107, A1567883, W74529, A1690312, A1688858, A1677777, AW075669, A1702073, A1800473, A1371251, AW130681, A1263312, AA420722, A1536685, A1798456, A1678446, AW075305, AW192461, A1433157, A1952493, A1811840, A1002285, A1433994, A1866465, A1540458, A1799674, A1811644, A1564719, AW082607, A1254731, A1685005, A1469532, A1918809, A1887569, W48671, A1570807, A1352274, AW083778, A1345612, A1357599, A1862139, AW193038, AW081653, A1921176, A1683173, A1345416, AW129722, A1564500, A1679800, A1581033, A1291601, A1433600, A1909697, A1802542, AL048312, AL134712, A1619502, A1609580, A1627988, A1628015, AW021717, A1567846, A1682971, AL119828, AA744557, A1591387, AW128841, A1587606, A1241923, AA768478, AW169784, A1500061, A1933992, AW085786, A1280637, AW078895,

					A1469505, AW021373, A1863241, A1590021, A1537261, A1677797, N98597, A1623682, A1312210, A1582932, A1924713, A1567993, A137429, U35846, A122100, A137533, AF177401, I48978, A1022147, X72889, A1050277, AF125575, A133049, X53587, AC003032, AL137521, X53777, A65341, I48979, AL137529, AL137463, AL133557, AF061981, Z97214, L04849, AF102578, A1005690, A133112, A1078630, A1050149, AC006112, Y18680, AL080159, AL137488, A1049452, A49139, X93495, A93914, A08910, I28326, AC006288, AF087943, A08909, I08319, A08913, A038854, A18777, A77033, A77035, A08908, AF130342, AL133113, A08912, AB016226, AL137478, X65873, I00734, A76335, AF141289, Z82022, E00617, E00717, E00778, AL133010, AF032666, AL122110, AF090943, AL122098, AF026124, Z82206, A08907, S78214, A1035067, AL133637, AF111851, AL137547, S68736, AL133031, AL080110, I89947, A1080074, A1031346, I89931, A1080124, AF113694, Y10936, AL137523, AL050172, E12806, AL137459, I89944, I89934, I32738, AF137367, I49625, X79812, Y11254, AF079763, AF153205, A1050116, A08911, AF139986, AL110269, A18788, AR068753, A21103, S76508, S36676, X80340, AC004686, AF183393, AL137574, AC006197, AL137275, AL137480, AR038969, L24896, AF000083, A1049283, AL122050, AL110221, AL117457, AL133568, AL122118, AF180525, AF106657, X83508, U95114, AL137550, A08916, A1035407, S77771, AF113019, AF076633, AF106697, AF104032, U72620, A58524, A58523, L04859, AF162270, A15345, AF026816, X82434, AF090934, AF067728, AL137560, D89079, AL117416, X92070, M96857, AL080156, U80742, Y07905, AF038440, AL110218, A17115, A18079, E15569, AL137539, U54559, L19437, AL117460, Z37987, S69510, AL110225, A1080148, AL137641, L04504, S71381, AL137276, S61953, AF078844, AF161699, AF082526, AF131773, U58996, AF031147, AF017790, AF047716, AF061795, Y14314, AF151685, A1096744, A1050108, U49434, A52563, AB029065, AF000145, U88966, E08516, AL137537, AL137627, AR020905, AL137556, AF031903, S78453, Y16645, A86558, A65340, AF118070, A83556, L30117, and M85164.
HDP LK49	1769	835603	1 - 275	15 - 289	A1739321, and AP000542.
HDP LN06	1770	935010	1 - 422	15 - 436	
HDP LN76	1771	921700	1 - 391	15 - 405	AA481295, AA213873, and AF001549.
HDP LO50	1772	724098	1 - 714	15 - 728	AA355040.
HDP LT29	1773	958196	1 - 204	15 - 218	
HDP LV74	1774	765334	1 - 467	15 - 481	AL034375.
HDP MA48	1775	582015	1 - 829	15 - 843	A1760818, and A1769951.
HDP MC49	1776	852767	1 - 1468	15 - 1482	
HDP MF53	1777	733466	1 - 384	15 - 398	R60108, A1914747, W89152, A1371165, A102980, H71659, U07562, AC002073, AL049576, Z95115, AC005832, A1009174, AC002551, AF110324, Z99291, AC002365, AL035659, AC002132, AC005015, AC004779, AC007151, AC004672, AL035405, AC007207, AL031713, AC004953, AC007011, AF111168, AL008726, AC002994, AF064860, AC006064, AC006430,

HDPMH83	1778	661316	1 - 567	15 - 581	AC004472, AL031276, M31951, and AC000394.
HDPMJ93	1779	852763	1 - 571	15 - 585	AB001535, AP001064, and AP001063.
HDPMO62	1780	912722	1 - 570	15 - 584	
HDPMF25	1781	678068	1 - 588	15 - 602	
HDPMQ34	1782	956248	1 - 417	15 - 431	AA678970, AA515440, AL110760, AA680243, AA679936, AL633479, AL732120, AC005919, AC004382, AC008072, AF196969, L44140, AC005722, AC006285, AC005881, AC002470, AF109907, AC004655, AC002077, U63721, U95739, AC005244, AP000114, AP000046, U162293, AC004531, AC009516, AL022324, AC005037, AC007386, AC005057, AB022785, AC008989, U62292, AC004854, AC005225, AC005740, AC004526, AC004253, AC005776, U78027, AL031283, AC006576, AC004876, AL021155, AL049776, AC005695, AL021407, AC020663, AL022312, Z98200, AL035422, AL139054, AP000065, AC002310, Z93023, AC004815, Z98051, AC005180, AL049760, AP000553, AL022336, AC007387, AC005920, AC005280, AC000353, U52111, AF134726, AC005215, AC000159, AF165926, AL033527, AL049692, AL135744, AL031311, AC004477, AC005015, AC004448, AC006026, AC007637, AC002404, AC006088, AC007225, AC005565, AC006539, AC007919, AC005846, AF047825, AC004858, AC000134, AL031985, AL132987, AC005821, AC005839, AL008582, AC004067, AC004651, AC005899, AC007388, AC005562, AC007773, AC005486, AC006571, AC016025, AC004851, AC004383, AL13243, AL133245, AL035683, AF053356, AL031680, Z86061, AC004895, AL024507, AC009044, AP000555, AL035458, AC005837, AL022163, AC005071, Z93020, AL008635, AC005480, AC005552, AF152363, AC005484, AC002059, AL023553, AC005399, AC004223, AF205588, Z84487, Z98743, AC004821, AF207550, AC002115, U95742, AL031432, AC004813, AC007845, AC005682, AL096791, Z95329, AC005479, AC006251, AP000350, AL009181, AC006388, AC008372, AC002418, AL049871, AC007216, AC005500, AC006254, AL049829, AL132777, AC002565, AP000302, AC003957, AC006115, AC005189, AP000493, Z94056, AC003695, AC006120, AL022721, AL023653, AC007536, AP000503, AL049780, Z83840, AC007055, AC005907, AC005859, AC000026, AC005755, AC012627, AC005609, AL031666, AC004882, AL049636, Z95115, AC004525, AC004601, AC002492, AF196970, AC007686, and AC005632.
HDPM542	1783	713759	1 - 460	15 - 474	H84948, R88291, AW014470, AI810506, R85497, C15173, AA704157, AA286825, D81736, and N93232.
HDPMV53	1784	697470	1 - 535	15 - 549	F09050, AA243386, C14449, AB007944, AF109076, AP000310, AC002301, AP000116, and 177096.
HDPMW22	1785	665153	1 - 452	15 - 466	AA447328.
HDPMZ01	1786	916447	1 - 635	15 - 649	AA418623, AA418556, AA253164, H11871, and F05796.
HDPMNA03	1787	924082	1 - 97	15 - 111	AC005913.
HDPMNC96	1788	934520	1 - 720	15 - 734	AA256100, and AB023182.

HDPND35	1789	973108	1 - 453	15 - 467	
HDPNE60	1790	974827	1 - 977	15 - 991	AL138082, AW246260, AW247807, AW246149, AI878829, AW403641, R07062, AA687406, AW403272, AA687440, AA852531, AI659057, AI079775, AW005562, AF197060, AB009346, AB038365, AB038364, and U58884.
HDPNJ03	1791	924081	1 - 512	15 - 526	AA883801, AI296498, N85346, and AA249868.
HDPNJ14	1792	767447	1 - 308	15 - 322	
HDPNC44	1793	707241	1 - 660	15 - 674	AA360824.
HDPND96	1794	939770	1 - 264	15 - 278	
HDPDF25	1795	852745	1 - 484	15 - 498	AC003109, Z97055, and AC005630.
HDPDI52	1796	927699	1 - 884	15 - 898	AI493647.
HDPDI93	1797	792193	1 - 378	15 - 392	
HDPDK47	1798	973097	1 - 388	15 - 402	
HDPDL60	1799	767953	1 - 170	15 - 184	AI205285, AI264338, R48389, T57897, AA191491, R61591, AI365411, AA779717, AA227325, and AF056312.
HDPOL66	1800	681391	1 - 424	15 - 438	AA909852, AI718702, AA830158, AA281962, AA283111, AA579393, AA814111, AA480552, AA477445, AI791799, AA807056, AA469312, AA653189, AW451366, AA814853, AI598013, Z84489, Z84814, Z84477, and AF060863.
HDPOX65	1801	674963	1 - 283	15 - 297	AF001548.
HDPOY33	1802	702285	1 - 208	15 - 222	
HDPOZ51	1803	926977	1 - 417	15 - 431	AI014353, AA592982, and R17976.
HDPPA66	1804	870840	1 - 518	15 - 532	T99407, and T97870.
HDPPC83	1805	683656	1 - 403	15 - 417	
HDPPD59	1806	708334	1 - 223	15 - 237	
HDPPG35	1807	579315	1 - 538	15 - 552	AI767219.
HDPPG86	1808	923846	1 - 328	15 - 342	
HDPPK33	1809	666510	1 - 557	15 - 571	
HDPLPL30	1810	692095	1 - 581	15 - 595	AA528168, AA417878, N75120, AA688401, AI689902, N59545, N59559, N78301, AA426418, AL037450, AW016155, and AA610394.
					AI453210, AA578690, AI950963, T05118, AI537407, AF036405, AC004408, AC007686, AC005666, AP000065, AC004985, AC005800, AP000347, AL049836, Z99716, AC005412, AF202321, AJ229041, AL035458, AF107045, AC006006, AC000025, AL110502, AL050341, AC004491, AC005527, AC004686, AL035587, AC009247, AL031668, Z97876, AC007390, AF196969, AC008394, Z82188, Z95114, AC005789, AL078639, AC005529, AF111167, AL031295, AC010205, AL096791, AC004382, AC002300, AL132987, AC005907, AC005409, AC007731, AC006455, and AC005500.
HDPPI09	1811	625281	1 - 516	15 - 530	AF041248, AF041249, and AF058759.
HDPPI33	1812	958993	1 - 136	15 - 150	

HDPN59	1813	909867	1 - 711	15 - 725	AA781406, AA304143, and A1079221.
HDPPO88	1814	963382	1 - 629	15 - 643	
HDPPO24	1815	812091	1 - 543	15 - 557	AA082133.
HDPPO39	1816	712993	1 - 463	15 - 477	AJ951092, AP000555, Z98304, AL024474, AL035464, and AC004655.
HDPPO30	1817	671973	1 - 327	15 - 341	AL022238.
HDPPO44	1818	951276	1 - 437	15 - 451	AI741964, AA361063, and AR035946.
HDPPO36	1819	785239	1 - 392	15 - 406	N25176, AB013139, AC004612, AF069291, and AF049895.
HDPPO43	1820	674958	1 - 291	15 - 305	
HDPQA91	1821	973075	1 - 799	15 - 813	AL134920, AW392670, AL119355, AW384394, U46341, AW363220, AL119443, AW372827, AL119341, AL119497, AL119319, AL119457, AL042542, AL119324, AL119335, AL119396, Z99396, U46347, AL119399, AL119484, AL119363, AL119391, U46350, U46351, U46349, U46346, AL119444, AL119483, AL037205, AL042433, AL042614, U46345, AL134524, AL119439, AL119522, AL134902, AL134527, AL042975, AL119496, AL042450, AL042965, AL119418, AL142131, AL042984, AL042544, AL042980, AL042970, AL043019, AL043029, AL043037, AL042978, AL079683, AL043011, AL047033, AL042551, AL043003, AL119464, AL119320, AL119488, AL042850, AL043039, AL043008, AL042973, AL042428, AC006238, AB026436, AR054110, A81671, AR060234, AR066494, AR069079, and AR043113.
HDPQC21	1822	786516	1 - 347	15 - 361	AA844106.
HDPQC83	1823	830539	1 - 465	15 - 479	
HDPQJ45	1824	928430	1 - 309	15 - 323	A1708005, A1001764, H78032, N67343, AA302697, A1270524, AA086150, AW157492, AA338167, AA338659, A1634691, A1678785, A1879394, AA449710, A1591375, R65651, AA855056, A1932600, AA845700, AA095637, A1053911, AF034194, AF037630, A1858864, AA074342, AW302724, F17142, AA847702, AA722297, AA679538, A1921043, AL042927, A1355414, A1932932, AA746726, AA287339, AA719073, A1733856, AA961035, AA077401, A1054414, AA737321, H64265, AA747009, N55515, A1798493, AA083215, R88067, AA365815, H11824, AA828062, AA503587, A1817230, A1922930, AW089898, A1494417, A1732789, AA493110, AA569786, AW069227, A1307565, AA381138, AW081303, AA630535, T47324, H69089, H65109, AA608715, A1634187, AA568494, AA605201, F36184, A1457313, AA587991, C15060, AA837035, T35761, AA833896, AA833875, H83470, AW270784, T51005, A1206669, AW302017, T52857, A1348678, A1367473, A1002708, A1916218, AC007536, AC005771, AC005340, AC005953, AL049773, AC002072, AC006972, Z93848, AL008716, Z70280, AC010382, AC004896, AC005050, M87898, AJ010770, AF092858, AF116241, U51280, AF001551, AC004882, AC007999, AC007199, AL034375, AL021154, AL117352, AL031311, AC006120, AC009336, AC001228, AC006953, AL080242, AL078477, AC003086, AC005529, D63861, AC004799, AL020998, U07563, AC004584, AC009247, AP000356, AC004821, AC004098, M87926, AL023882, AC005933, AC006958, AL078584, AB023049, Z82214, Z84572, Z97181, AC006011, AC007559, AP000512, AL137430, AC004796, Z46936, AL117330.

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HDPQL15	1825	780876	1 - 415	15 - 429	
HDPQL64	1826	746043	1 - 394	15 - 408	
HDPQL72	1827	760934	1 - 382	15 - 396	W73902.
HDPQN03	1828	923168	1 - 437	15 - 451	
HDPQO40	1829	949723	1 - 1727	15 - 1741	AI680867, AA973037, AA868809, AW291165, AW169977, AA459970, AA235170, AA460062, AA235071, AA811821, AA234899, AW243583, R50382, T19463, R47735, AA765007, and AA748788.
HDPQO77	1830	739816	1 - 363	15 - 377	
HDPQR31	1831	741278	1 - 422	15 - 436	AC003695.
HDPQU30	1832	768771	1 - 464	15 - 478	
HDPQV63	1833	744471	1 - 307	15 - 321	H09185, F12161, T75262, and T65253.
HDPRE08	1834	958933	1 - 661	15 - 675	H00911, H84847, and AP000404.
HDPRE10	1835	961306	1 - 400	15 - 414	AC005105.
HDPRG09	1836	828572	1 - 366	15 - 380	AI653128, AA608839, AI082182, AA294981, AW451945, AA361764, AI610135, AW402400,

HDPRH02	1837	919404	1 - 777	15 - 791	AA926743, AA759066, AA287428, AL039683, and AB033038. AI348070, AI373167, AI378134, AI553832, AI816769, AA804474, AI401522, AA887492, AI084865, AA741486, AI796192, AA913644, AW071892, AI942465, AW007026, AA279724, AI381670, AI292178, AA279692, AI291674, AW291184, AW298288, AW452501, AI224978, AI301454, AA913182, and AI378100.
HDPRH59	1838	739077	1 - 604	15 - 618	AA213441, and AF017714.
HDPRJ39	1839	773790	1 - 392	15 - 406	R45733.
HDPRL58	1840	724652	1 - 370	15 - 384	AC005803.
HDPRN15	1841	577985	1 - 439	15 - 453	
HDPRP29	1842	690399	1 - 606	15 - 620	AI174237, and AA019204.
HDPRP83	1843	773394	1 - 452	15 - 466	AC006213.
HDPRS79	1844	774077	1 - 288	15 - 302	AW236973, and AI521731.
HDPRY05	1845	958822	1 - 455	15 - 469	
HDPRY33	1846	893790	1 - 555	15 - 569	AI984149, T83298, T90781, AI598260, R94426, T80416, and Z97352.
HDPRY70	1847	677782	1 - 330	15 - 344	AW027929, AI672172, AW027716, AI313156, AI831852, AI738441, AI816795, AI990910, AI824006, AI961202, AI566917, AI394023, AW241527, AI693976, AI985370, AI384116, AI333382, AI768254, AI366852, AI337214, AI264540, and AC004917.
HDPS55	1848	731496	1 - 308	15 - 322	AI815715, and AB028996.
HDPSG10	1849	961323	1 - 443	15 - 457	AA310474, and AI831536.
HDPSJ84	1850	782867	1 - 409	15 - 423	R16664, T82134, and AL031133.
HDPSM07	1851	620372	1 - 587	15 - 601	N59251, AA504245, AI679277, AI922887, AI161077, AI767882, AW337496, AW138439, and AI679851.
HDPSO36	1852	959141	1 - 418	15 - 432	AI521731, and AW236973.
HDPS557	1853	734507	1 - 563	15 - 577	AW264023, AI193596, AI276007, AI828424, AI342582, AI291713, AI140006, AI858631, AI500563, AI914656, H81012, AA847341, AA828840, AW339694, AI570067, AA873661, AA593168, AW238423, AW085626, R79396, R91350, AW243516, AW059706, AA947352, AA364082, AW028376, AI281622, AA632355, H85358, AA640563, AI760575, AI446618, R00693, AA364147, AI904126, AA991640, AW022796, AA515727, AI282322, AA420531, AA657834, AI003620, AI572680, AA493814, AI268465, AI814863, AA359194, F34164, AA310753, AW166996, AI500315, H57802, AA419014, AA502862, AL031427, AC003029, AF111168, AC006079, AC006071, AC004996, AL021546, AC005520, AC004233, AL021937, AL050318, AC005914, AC007314, AL021331, AC008372, AL133245, AL121653, AC002351, U07000, AL079304, AP000503, AC002425, AC005581, AF134726, AC006160, AL031255, AL049872, Z97056, AC004081, AC005911, AL034420, AL034371, AL050338, AC004126, AL035422, AC002094, AF195658, AC006285, AC005585, AL121658, AL133448, AL022165, AC007066, AC004801, AC005800, AC004099, AL031121, AC004893, AD000864, AF038458.

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HDPSU54	1854	670838	1 - 347	15 - 361	AL043945, AF150295, and U64205.
HDPSV04	1855	614924	1 - 410	15 - 424	
HDPSV29	1856	690415	1 - 423	15 - 437	AA403069, AW410514, AL751649, AA486011, and AA099117.
HDPSV30	1857	691778	1 - 342	15 - 356	
HDPTC31	1858	878639	1 - 355	15 - 369	D86967.
HDPTJ25	1859	706448	1 - 365	15 - 379	AW084431, AA279385, R70884, AW272389, AA984920, R70883, F33820, AA158549, AA158550, AA092704, AA126271, H81732, T52745, AW071109, A1469468, A1627917, A1298079, AA229159, A1567391, AL041682, T98915, AA425924, AL047480, AA381775, A1564215, AA582746, F23268, A1279417, AL041681, A1078409, AA932787, AA948727, AA523695, W81372, AA808847, R99613, AL044489, AA197019, C75139, R09127, A1204309, AL047645, A1928890, A1921348, AW316599, AA015948, AW132065, AA558404, AA458534, AA977419, AA772704, AA515631, A1613465, A1242614, AW193523, AA572824, AA568307, AA746939, AA526413, F07564, AA070462, AA487300, R98409, A1933478, AA830615, AA744021, A1749306, A1345497, AA334091, AA837529, AW055286, A1630894, AA904211, F33126, AA743794, R87135, AA074252, AA811954, T08205, AA831638, N92697, AA371003, H62923, AA548221, R96427, R48980, A1859906, AW023515, H71659, A1289050, AA890060, AA303165, A1284092, AW151761, H73550, A1587349, A1565445, A1668566, AA504892, AA372293, A1800345, AA730488, R98835, AW265126, W23432, AA604515, AA720582, AA782322, AL037777, AW265688, AW118963, H48768, A1476460, A1249688, AA669747, A1275982, A1686363, A1954464, H73306, A1360504, AA230155, A1692245, A1818702, A1096714, AA077637, AA515160, AA973971, A1811319, AA572813, AW083706, W42587, AA831801, A1929298, R29092, AA652830, AA320105, AA309457, A1929825, AA506952, U46402, A1188049, T05276, AW151541, AW169390, N30650, A1733523, AA620498, A1459733,

HDPTJ79	1860	669209	1 - 1017	15 - 1031	<p>AW083728, AI038304, AI654305, AA354695, AA909816, AW157180, AI141130, AI253376, AI566236, AI754567, AI569100, AW192599, AI754105, AA351808, AI755214, AI784258, AI624800, AA832016, AI671077, AA665475, AA586433, AI080307, AI671695, AA192189, AA598627, AA533923, AA493618, AI537108, AA612578, AI653776, AI096738, AI006995, AC000394, AC004079, AL031984, AF043945, AI239318, AL049911, Z97183, AL035551, AC007114, AC007387, AC006017, AL121838, AC002072, AC005666, AC004230, AC007263, AL109623, AC008150, AP000702, AP000701, AL035443, AC002477, AC005295, AL078600, AC005746, X54156, U94788, AC003681, AC004783, AC005320, AL034548, AC007773, AC005881, AL049553, AC004991, AC005602, AC004900, AL035413, AC016027, AC016830, AC002385, L12582, AP000317, AP000051, AP000119, AP000547, AC006430, AC004601, AC005364, AC007192, AC005777, AL009183, AC000118, AF207550, Z84469, AC005972, AC007298, AC002059, AP000288, AP000109, AP000041, D87009, AC006040, AC005006, AL049557, U91321, AC005067, AL020993, AC003070, AL031000, AF111169, AF064857, M22970, X64467, AC005480, AC002301, AC003982, AC006251, AC002073, AC004982, AL096678, AC007036, AC002381, AL133162, AF072711, AC004796, AC004787, Z86090, AC004885, AC005203, AC004856, AL122020, AC010200, AC006111, AP000547, AC006430, AC004601, AC005364, Z68284, L48038, AL021453, AC002492, AL008707, AL021392, AC006236, AC007671, AC005237, L44140, AC010170, AC002287, Z94802, AC003026, AL109839, AL049631, AC005378, AL121603, AC005844, AC006317, AL031311, AC006480, U91323, AC005899, AC007308, AC002470, AC004232, AC007205, AF031076, AC004819, AF031078, AF030876, AC005695, Z82195, AF118808, AL109963, AL031009, AP000549, AC005514, AC005182, AL034554, AC006137, AL031983, AC002347, AL021578, U52111, AL031117, AC005531, AC006120, AC005082, AC006946, AC009731, AL034420, AC009509, Z93244, AB020864, AL023553, AC004685, AL031589, AL022162, AC002456, AC004551, AC010205, AC005803, AC005409, AF139813, AL096791, AC007917, AF111163, Z82171, AC005391, AL008719, AC005593, AL022343, AL033524, AL035419, AC005393, AC006006, AC007993, AL049636, AC003108, AC002094, U96629, AL096701, AL049871, AL022721, AC007656, AL022067, AL132800, AC008125, AL031591, AC005015, AC004522, AC004770, AC004228, M29929, U73634, AP000699, AC006276, AC005581, AP000300, AC000015, AL034421, AP000045, AP000113, AC004055, AL049643, AC005045, AL023581, AP000556, AP000557, AC007014, AL121769, AC006948, U91324, AL110200, AC006025, AC004832, U08988, U73647, AC004262, AC004762, AC004938, AL031657, AL109984, AC006101, AC004616, AC007347, AP001550, AC007225, Y07848, AL078639, Y10129, Z83856, AP000305, U91629, AP000690, AP001063, AP000047, AC006130, AL008582, AC004935, AP000115, AC004263, AF124523, Z99128, AL031588, AC005371, AL022316, AP000553, and AC005696.</p> <p>AA255804, AW274671, AW450051, AA256697, AA810976, AA731140, AA831863, AA737424, and AA761219.</p>
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HDPT071	1861	760142	1 - 662	15 - 676	
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HDPT07	1862	741632	1 - 355	15 - 369	AL079725.
HDPTS95	1863	906940	1 - 489	15 - 503	AW298312, AW298314, and AB033097.
HDPTT20	1864	669029	1 - 316	15 - 330	Z84488.
HDPTU30	1865	691181	1 - 343	15 - 357	AL049795.
HDPTU66	1866	697690	1 - 374	15 - 388	
HDPTU95	1867	876582	1 - 312	15 - 326	
HDPTW90	1868	722699	1 - 565	15 - 579	
HDPLD28	1869	852687	1 - 252	15 - 266	AI417133.
HDPUF77	1870	769852	1 - 246	15 - 260	
HDPUF94	1871	861520	1 - 438	15 - 452	H82937, AA418494, AA418396, AI064869, AW051301, T84203, F18098, AA846353, AA767276, T11545, H58588, T82034, AI609370, AA594971, US0017, AC002527, AC002302, AC004799, AC003010, AC004821, AC005011, AC005225, AL023755, AP000962, AC005071, Z80902, AP000502, AC002326, AF134726, AC005329, AC005031, AL133355, AC004922, AC004491, AC004839, AC004143, AC004976, AC004125, AC005564, AC002132, AC007151, AC002549, AL034419, AL009031, AC005763, AF024533, AC008015, AC005899, AL035685, AB026906, AC005162, AC006014, AC007546, AC006251, AC002301, AC002112, AC005015, AC007225, AL023807, AC003048, AC004878, Z97200, AC005488, and AC005764.
HDPUG06	1872	968313	1 - 459	15 - 473	AC002091, and AC003695.
HDPUO02	1873	973235	1 - 683	15 - 697	AC006238.
HDPU62	1874	604483	1 - 365	15 - 379	AI500481, F06397, AW148768, AI681168, N36045, AI133235, AA491120, R18846, T90676.

HDPVD09	1875	774165	1 - 723	15 - 737	AA054341, AL030390, AL046681, A1890907, AL046137, A1249936, AL044204, A1049726, AA598862, AL042551, A1672187, AL045166, A1431235, A1888022, AW151136, AL120789, A1932620, AW058275, A1866484, AL047009, A1366900, AL047188, AL135730, A1689247, A1621302, A1884585, A1538615, A1431307, A1431316, A1431238, A1924051, A1920975, A1866786, A1431315, A1682915, A1866465, A1815232, A1801325, A1866691, A1500523, A1538850, A1887775, A1582932, A1590043, A1872423, A1923989, A1284517, A1500706, A1491776, A1445237, A1926593, A1289791, AW151138, A1889189, A1521560, A1500662, AW151974, A1285417, A1284509, A1582912, AW172723, A1539800, A1499512, A1889168, A1538885, A1440263, A1927233, A1866573, A1633493, A1434256, A1866469, A1805769, A1434242, A1888661, A1500714, A1284513, A1872310, A1888118, A1285439, A1859991, A1436429, A1355779, A1889147, A1623736, A1581033, A1371228, A1491710, A1440252, A1872315, A1440238, A1432656, A1567971, A1860003, A1610557, A1242736, A1539260, A1828574, A1887499, A1539781, A1702065, A1539707, A1885949, AL133074, Y17793, AL133076, AL133053, AL133049, and AL133078.
HDPVE36	1876	706712	1 - 546	15 - 560	AA256770.
HDPVG11	1877	966556	1 - 910	15 - 924	AW068637, A1003761, A1039369, A1380538, and AL137555.
HDPVH13	1878	656711	1 - 581	15 - 595	W26587.
HDPVL94	1879	927023	1 - 463	15 - 477	Z81450, and AC004652.
HDPVO96	1880	796133	1 - 389	15 - 403	AA777374.
HDPVR71	1881	740340	1 - 850	15 - 864	AA082562, and AC007899.
HDPVI135	1882	852616	1 - 623	15 - 637	
HDPVV46	1883	718160	1 - 399	15 - 413	AB002344.
HDPVV95	1884	582503	1 - 351	15 - 365	
HDPVW13	1885	656715	1 - 585	15 - 599	AC006207.
HDPVY53	1886	727593	1 - 317	15 - 331	AA948370, AC005390, and AB023180.
HDPVY58	1887	710458	1 - 365	15 - 379	AL038081.
HDPWA55	1888	965474	1 - 408	15 - 422	AC006966.
HDPWD25	1889	677764	1 - 500	15 - 514	
HDPWE80	1890	909916	1 - 932	15 - 946	AA172104, AA232124, A1986306, R58806, AA081848, and AA232093.
HDPWE88	1891	857980	1 - 427	15 - 441	R18560, R13864, Z41866, AA333327, AA016124, AF107834, AF119386, AF097723, AF009513, and AF107835.
HDPWH10	1892	967692	1 - 472	15 - 486	A1758788.
HDPWN34	1893	703814	1 - 451	15 - 465	AA714632, D45305, AA307780, and A1923248.
HDPWY46	1894	915964	1 - 462	15 - 476	AL120101, AW246324, AF034175, A1460387, AW401572, AA338094, AA348155, AA316673, AA337791, R59433, U46268/AW402296, AA955027, AA393071, AF061738, AC006160, and

HDPXE68	1895	852626	1 - 635	15 - 649	S65367, AF004231,
HDPXF52	1896	726450	1 - 440	15 - 454	AI697586,
HDPXL59	1897	615543	1 - 568	15 - 582	AA115345, NS1515, AW297689, AA115304, NS1527, AI925591, and AL080209,
HDPXL68	1898	707532	1 - 830	15 - 844	AA789296, and AI420081,
HDPXP04	1899	614895	1 - 745	15 - 759	T62674,
HDPXU29	1900	852638	1 - 519	15 - 533	H72530, AI207465, W52505, AI311647, AA174017, N72717, AA007673, N68472, AA773302, AA174016, AA223762, AI371165, N71291, AI457389, AL121782, AL008718, AC005833, AC004531, AC002369, AC005759, AL049757, AP000533, X77737, Y12851, X77738, L35930, AL031672, AC009336, AF109907, AP000553, AC007022, AF157814, AC004813, AC010205, AC005066, AL034552, AF001552, AC002395, AC005291, AC005789, AC000159, Z98941, L78833, AC003102, AL031591, AC000067, AC000093, AC007243, AF053356, Z49258, AC002375, AC006121, AC004828, AC006236, AC006388, AC005305, AC001231, AC006001, AC002086, AL008712, AC005695, AL050321, AL049544, AL035420, AC000105, AC006543, AC005664, AL022336, AC005911, AF111168, AC004805, AC006547, AC007533, AB014084, AC004659, AC006544, Z95118, AC004032, AL132992, AC004752, U07000, AL117258, AL031680, Z98742, AC004966, AF006487, AP000501, and AC003983,
HDPXW75	1901	951320	1 - 771	15 - 785	N46466, AI337376, W86648, AA522544, AI279721, AI341807, AI651516, AI245138, AI262580, and W86523,
HDPXX01	1902	915914	1 - 392	15 - 406	
HDPXZ92	1903	743429	1 - 673	15 - 687	
HDPYC51	1904	919000	1 - 333	15 - 347	AA831180, AA593812, AI608672, AA877902, AA845911, AW136605, AA831016, AW139428, AI920936, AI421209, AL138419, AL138420, W70159, AA034272, AI143351, W96568, AI870975, AI129781, AI749544, AA029334, W96468, AI801387, AI424505, W87792, AI342176, AI363136, AI310128, AI343371, AA029335, AI138774, AI217508, AI337280, AI832175, AI018551, AW195185, AW080907, AW009317, AA033560, AA339417, AW245250, AA523730, AI658874, AW138805, W70198, AW340796, AA781337, T89101, AA032082, AA746107, AI659538, AI989852, W87672, AI699899, R46554, R46555, AA340560, AJ499481, AI890907, AI623302, AI431307, AI561147, AI866786, AI431316, AI431238, AL043278, AI815239, AI500659, AL134524, AW193598, AI866465, AI815232, AI801325, AI866691, AI500523, AI804505, AI538850, AI887775, AI582932, AI434223, AI872423, AI590043, AI284517, AI923989, AI500706, AI491776, AI445237, AI289791, AI926593, AW151138, R50170, AI521560, AI889189, AI500662, AW151974, AI285417, AW172723, AI284509, AI539800, AI582912, AI889168, AI538885, AI440263, AI927233, AW058275, AI866573, AI633493, AI434256, AI866469, AI805769, AJ434242, AI888661, AI500714, AI284513, AI888118, AI285439, AI890472, AI436429, AI859991, AI623736, AI355779, AI889147, AI581033, AI371228, AI491710, AI440252, AI440238, AI924051, AI567971, AI610557, AI860003,

					<p> AI242736, AI539260, AI828574, AI887499, AI539781, AI539707, AI702065, AI885949, AI285419, AI559957, AW089557, AI521571, AI469775, AI866581, AW074057, AI567953, AI815150, AI446495, AL040491, AI889191, AI867068, AI952433, AL039390, AI225248, AI358271, AI798359, AI872315, AI932620, AI698352, AI282249, AI371229, AW151107, AL042551, AI371237, AI249936, AW194509, AI432644, AI355008, AL045166, AW151979, AL046681, AL039287, AI963852, AI494201, AI866458, AL046137, AI537677, AI371251, AI440260, AI866510, AI784016, AI499535, AI866461, AI923046, AI865995, AI521228, AI672187, AI955221, AI682915, AI500518, AW151132, AI432666, AI539771, AI689247, AI289386, AW151136, AI924024, AW132015, AI561170, AI690946, AI469764, AI047611, AI648567, AI433157, AI432650, AL048403, AI362391, AI521596, AI433978, AI828584, AW151970, AI801286, AI866484, AI687588, AI432653, AI474699, AL042787, AI431323, AL042655, AI431321, AI371243, AI431315, AI469754, AI499543, AL042533, AW081103, AL042853, AI345471, AL043166, AI432656, AI440236, AI289747, AL008718, AB023147, AL133076, U85195, AE000658, AL133053, AL122101, AL133049, AF126531, Z69719, AF045555, AL049538, AL133655, U30290, AL133074, E13998, AC005826, AC007358, AL023280, AL031282, AC005345, AR059958, AL133020, AL121603, AL031407, AC004544, AL049776, AC005993, AL031390, AL022324, AP000299, AP000113, AP000045, AL049795, AC005482, AC005483, U89387, AC006002, AC004656, AC005520, AR015970, AC004990, Z94162, AC005074, AC002078, AC004027, AC002430, AL009029, AC007384, AL121915, AF002985, AR055519, and AR034821. </p>
HDPYD58	1905	726288	1 - 323	15 - 337	AW179153, AW179151, AW179152, AW179089, AW179088, and AL122043.
HDPYD92	1906	791222	1 - 207	15 - 221	
HDPYE96	1907	717598	1 - 485	15 - 499	AB011158, and Z61808.
HDPYF79	1908	774272	1 - 498	15 - 512	
HDPYH79	1909	886845	1 - 168	15 - 182	T87457, T99432, W88845, R06479, and AA226858.
HDQDU40	1910	791340	1 - 621	15 - 635	
HDQEA94	1911	793378	1 - 633	15 - 647	
HDQEC77	1912	771351	1 - 669	15 - 683	AW021230, T97381, D87685, and AF091622.
HDQEC82	1913	779149	1 - 481	15 - 495	<p> AL119443, AW392670, AL119363, AW372827, AL119319, U46346, AW363220, AW384394, U46351, AL119497, U46349, AL119496, AL119457, AL119355, U46350, AL119484, AL119391, AL119444, U46347, AL119458, AL119324, U46341, Z99396, AL134518, AL042970, AL119355, AL119483, AL119341, AL119439, U46345, AL134524, AL042965, AL119522, AL042614, AL042995, AL119399, AL037205, AL119396, AL134538, AL119418, AL119304, AL043029, AL042450, AL042975, AL042850, AL119320, AL042544, AL042542, AL043019, AL042984, AL119464, AL042551, AL043003, AB026436, A81671, AR054110, AR060234, AR066494, and AR069079. </p>
HDOEF04	1914	927024	1 - 553	15 - 567	N75118, AI027157, and Z82711

HDQEF89	1915	786393	1 - 531	15 - 545	
HDQEI75	1916	766698	1 - 392	15 - 406	
HDQEN22	1917	931041	1 - 508	15 - 522	
HDQES62	1918	792766	1 - 661	15 - 675	AW269444, AA669114, AW082136, AI914499, and AC000398.
HDQET03	1919	923015	1 - 478	15 - 492	AL119391, AA833896, AA833875, AA457070, AI640411, AA721645, AA828739, AA829154, AI017251, AI811653, AA655005, AA834885, AI887716, AW089898, R08918, AA584125, AC004066, AC005209, AC006960, AC004707, AC007664, AC007327, AC007225, AC005828, Z85986, AP000503, AC005375, AF134726, AC008018, AC005944, AC003991, Z95115, AL033527, AL133163, AC006958, AC004993, Z82178, AL035405, AC005011, AC004106, D28126, Z49155, U07561, AC005954, AF002997, U95739, Z81364, Z85987, AL031282, AL008721, AL031673, AC004590, AC006316, AC007388, AC004832, AC007876, AC005516, AC000111, AD000813, AC005763, AC002316, AL023799, AL022312, AL049795, AL034549, AL022165, AC005688, AC006430, AL031643, AC006128, AC004542, AC004552, AL136297, AC005562, AC005783, AL009183, AP000252, AP000030, AP000212, AP000134, AC005996, Z82205, AC007283, AL031281, AC005484, AC006011, AC006328, AC005037, L78833, AC007533, AC006050, U62293, AL050307, AC007540, AC006312, AC007114, and AP000690.
HDQET24	1920	805486	1 - 642	15 - 656	AW450053, F11194, and U91321.
HDQEU26	1921	959940	1 - 503	15 - 517	
HDQEU63	1922	852614	1 - 524	15 - 538	D25538, and Z49806.
HDQEU92	1923	973212	1 - 743	15 - 757	AI142131.
HDQFA01	1924	924539	1 - 1363	15 - 1377	AW297731, AI885498, AA809854, AI831297, AA687107, AA809960, and AI523034.
HDQFC85	1925	783797	1 - 1331	15 - 1345	
HDQFK04	1926	926758	1 - 673	15 - 687	
HDQFL11	1927	966106	1 - 319	15 - 333	
HDQFW03	1928	915968	1 - 542	15 - 556	AA476647, U25898, and AC005182.
HDQGB04	1929	852577	1 - 500	15 - 514	D79099.
HDQGC76	1930	950734	1 - 486	15 - 500	AL119319, AL042551, AW392670, AL119457, U46346, Z99396, AL119363, AL119341, AL119497, AW372827, AL119443, AW363220, AW384394, AL119484, AL119391, U46351, AL119324, U46350, U46347, U46349, AL119355, AL119496, AL119444, AL119483, AL134518, U46341, AL119335, AL134538, AL042965, AL134902, AI142132, AL119439, AL119418, AL119399, AL037205, AL119401, AL119522, U46345, AL119396, AL042450, AL042614, AL134525, AL134536, AL042970, AL119320, AL134532, AL042975, AL042544, AL043029, AL043019, AL042984, AL042542, AL119464, AL043003, AB026436, AR054110, AR066494, A81671, AR060234, and AR069079.
HDQGG01	1931	974439	1 - 201	15 - 215	
HDQGG63	1932	875920	1 - 633	15 - 647	AC007395.

HDQGR80	1935	791744	1 - 429	15 - 443	R64617, H86221, AA541532, AA630122, AA312303, AA659360, T47389, AA070927, AL037777, AW188742, AA601237, H84412, A1873759, AA302661, AA019003, AA669711, F35097, AA654874, T71936, A1160786, R72363, AL139054, AC002312, AC005231, AC000379, Z83844, AL031666, AC009509, AC004103, AL022323, AB003151, AC005695, AL022326, AL021977, AC007199, AL109657, AC005071, AC000353, AC005519, AC006241, AC006449, AC004878, AP000500, AC004134, AC004922, AC004821, AF042089, AC006023, U91321, AC004081, AL034417, AP000688, AF205588, Z93023, AL109952, AL035420, AL117337, AL035400, AP000509, AC006251, AL133163, AL024498, AL034549, AC004814, AC005815, AC004386, AC004491, AC002039, AL008718, AC007551, AL022165, AC005763, AL049780, AC004955, AC002128, AL078581, AF001549, AC004257, AC005081, AC005207, AL022316, AP000210, AP000132, AC004659, AC002418, AC006538, AC005620, AL135744, AL122023, 134294, AC007011, AL050317, AC005058, U85195, AC004910, AC005046, AC004851, AC005089, AL049576, AP000248, AC006006, AC004217, AC004139, AC002395, AC006014, AC005088, AL022327, AL033527, U07000, AE000658, AF196969, Z85987, AC005531, AC003043, AC005225, AL096701, AB015355, Z97054, AL031311, AF111168, AL109628, AC009501, AF001550, AC002126, AC007919, AC005944, AC002369, AC003029, AC002115, Z95116, AL079340, AC004865, AC006047, AC005015, AC005932, AF111169, AC005488, AC003966, Z98051, AC004067, AC005399, AL049694, AL031662, AC005332, AL109865, AC000075, AL109758, Z95114, AC007381, AC007899, AL035684, AL035072, AC006547, AL096791, AD001527, AC004770, AC002073, AC006312, AC004583, AC004996, Z86090, AL031595, AL080243, AC004099, AC003080, AL049776, AC006211, AL049795, AL133246, AC002375, AC007151, AB023049, AC006468, AL050318, AC004815, AC002310, AC002425, AP000345, Z68872, AL022318, AC005049, AC006011, AL035455, AC003042, AC010077, AC004805, AC007308, AL021528, AC007421, AC012039, AC005383, AF000512, AL022336, AC005484, AC006450, AL078593, AC002476, AL022337, AL031291, AC006048, AL109827, AL031432, AL034429, AJ003147, AJ251973, U91326, AL020995, AC004560, AL121655, AC000120, AC005800, AC005387, AL022237, AC010206, D84394, AC005295, AC005913, AC005632, AC006536, AP000555, AC002072, AC005856, AC002301, AC006948, AL133245, AC009247, AC005261, AL031281, AC002036, AC006077, AC006254, AC007993, AC004694, AF030453, AC004884, and AP000689.
HDQGR80	1935	880654	1 - 509	15 - 523	
HDQGT70	1936	909848	1 - 436	15 - 450	
HDQHF10	1937	963485	1 - 395	15 - 409	
HDQHF04	1938	926988	1 - 949	15 - 963	
HDQHM43	1939	852556	1 - 559	15 - 573	
HDQHO04	1940	926976	1 - 212	15 - 226	
AA809589, and AA532423.					
AA847392, H45758, AA021644, and AA010967.					

HDQHQ07	1941	852555	1 - 421	15 - 435	AC005390.
HDQHP44	1942	811790	1 - 502	15 - 516	AA428432, AF033033, AC008372, and Z81364.
HDQHQ83	1943	973129	1 - 493	15 - 507	AL044340, AA577824, AW022897, AA601125, W23726, AA161492, AL250561, AW166697, AI345007, AI345797, AA593465, AA226084, AW023662, AA577906, AA484749, AI133448, U47924, AC006965, AL117352, AL024507, AC005527, AC004584, AC004491, AL109627, AC005049, AC005529, AC006211, AP000356, AC004167, Z85986, AC007242, AJ246003, AC004895, AC005952, AC002565, AC005089, AC006536, AC004656, AC005335, AC006251, AP001054, AL121658, AP000557, AC006538, AL049776, Y18000, AL022237, AC007055, AF030453, AP000556, AP000354, AC002369, AC005495, AF053356, AC004097, AC003109, AL133163, AC005220, AC005747, AC006312, AC007308, AC006012, AF001552, AC004000, AC005391, AC003664, AC002301, AC005015, AC004841, AC007226, AC003983, AL031311, AC002430, AR036572, U91328, AL031291, L44140, AP000008, AP000511, AC004963, AL035420, AC007384, Z93023, AP000704, AC004079, AC006449, AC006238, AC002551, AF111169, AC004149, AC004408, AL021154, AL020997, AC006509, AC009542, AL049709, AC006088, AL035460, AC005500, AC005940, AC005332, AC004967, AC004217, Z98304, AC003098, AC007201, AC005088, AC004522, AC006050, AB017602, AC004671, AC004882, AC006270, U91326, AP000114, AC005726, AC002464, AC006946, AL031276, AL079303, AC005548, AL049636, AC002544, AC005225, AC002094, AC005180, AL008718, AC006130, AP000269, AC005920, AC005102, AC007324, AL109984, AC006241, AC005067, Z95114, AP001052, AC005277, AC003665, AL133485, Z84487, AL031432, AC005841, AF217403, AC004084, AC006057, AL035072, AC006480, AC005081, U80017, AC002472, AC002425, AP000103, AC004520, AC005581, AC007225, Z97055, AC007686, AC007664, AP000032, AC003071, AC007878, AC004983, AC005822, AC000353, AC004834, AC010205, AL050325, AC004020, Z84466, AC004143, AC005409, and AL031281.
HDQHT10	1944	963481	1 - 481	15 - 495	W31096, and AC003783.
HDQHZ10	1945	961336	1 - 474	15 - 488	AA179094.
HDQHZ22	1946	879416	1 - 396	15 - 410	
HDQIH19	1947	974391	1 - 504	15 - 518	AA557945, F16848, AA984829, H68343, AA507623, AA659832, AA368329, H15241, AA434078, AA569206, AA558404, T47138, F34151, H54252, H53284, AI249519, AA664963, AA610255, AA557790, AA778580, AI732911, W45215, AW265279, F34157, AA470490, AI567391, AA662614, AA368012, AI134332, F31867, AA845333, AA776225, AI671077, AA831919, AA371410, AL045423, T03928, N23504, AI345497, AI049630, AW237905, F24745, H86399, AI114494, AI860423, H43183, AI198718, AI190648, AA078483, D51877, AA846923, AW381821, H52397, H85808, AA846482, AW236277, AI619933, AI828721, AA778962, AA102737, AI800343, AI859744, AA911515, AI065031, AI337612, AA366601, AA225627, AW419389, AW265614, AA610433, AW265276, H58393, AW381823, AI284543, AI054090, AL079734, AA468458, AI929298, AJ358928, AA568314, AI929825, AA706202, AA084032.

					AA715075, AA584810, AA633875, AW238321, AA644090, AL117258, AL049697, AC002312, AL031133, AC012085, AC007030, AC005914, AC002476, AC005081, AC005015, AF107885, AC003973, AC008372, AC005519, AC004079, AC002492, AL031123, AC006360, Z85996, AP000140, Z68276, AC004841, AL049776, AP000350, AC004383, U95739, AC005697, AC005412, AL121652, AC005736, AC006511, AP000088, AC004882, AC005323, AL109628, AL049844, AP000270, AB007869, Z99716, AC005086, AF064019, AP000563, AL008712, AF053356, AL033525, AF196779, AC007450, Z82206, AC004702, U95743, AL031311, AP000133, AP000211, AC006071, AC005082, AL050348, AC009181, Z86090, AC005539, AL133500, AC007216, AC006959, AC004020, AL031295, Z98044, AC005332, AC002107, AP000089, AP000141, AC004132, U47924, AL021546, AC004007, AC004953, AC005193, AC006011, AC005520, AC006509, AC004967, AL021391, AC005243, AL031666, AL049778, AC002483, AC006571, AP000032, AC002477, AC009399, AC006449, AF196969, AC006130, AC004253, AC006115, AC005544, Z80232, AC005529, AC004890, AC005566, AC004655, AC004686, AC005157, AC009516, AL121655, AC006064, AC004834, AL133448, Z84467, AL022476, Z98885, AC007637, AL049829, AL034555, AC005531, AP000303, AC000159, AC007151, AL031282, AC007993, AL035410, AC005189, AB022785, AC004938, AP000036, AP000514, AL031291, Z98036, AC005971, AL135744, AL021154, AC004883, AC005913, AL133246, AC002310, AC007199, AL035420, AC005207, AP001052, Z98742, AC005363, AC004985, AC006238, AC002400, AL031432, AL008629, AC006960, AL021977, AC005803, Z82182, AC005067, AP000547, AL109952, AC005682, AL049780, AC007298, AC005696, AC009542, AC002546, AC004033, D87675, AP000553, AL132992, AC005527, AF045555, AC005479, AC010170, Z75407, AL031284, AL031846, AC005952, AL031186, AF043945, AC004142, AP000509, AC004765, AL031728, AC004104, AC002398, AL008635, AP000047, AC002073, AF109907, AL022336, U95741, AC005562, AL049779, AL133371, AC004966, AC005274, AC002094, AL008630, AL031447, AC004185, AL109758, AC004531, AC006121, AC007182, AC005785, AC005753, AL049869, Z99128, AC007056, AC003688, Z83823, L78810, AP000046, AP000114, AC002563, AL008731, AL121825, AC006057, AL109963, AC004554, AC000025, AC005318, AC005878, AL050307, AC006222, AL024509, U91321, AC005480, AL010770, Z97056, Z98752, AL049757, AC004491, AL023553, AC004851, U50871, AL246003, Z97183, AP000704, AP000130, AP000208, AP000503, AL121748, AC008044, AC002195, S42653, I34294, AC006044, AC005551, AC006088, AP000115, AC007371, AL035458, AC005829, AL109798, and AP000247.
HDQJ11	1948	966021	1 - 522	15 - 536	AI569060.
HDQMA71	1949	926528	1 - 578	15 - 592	AA250925, AL610805, AW022188, A1276031, AW204488, AA978318, AA769333, AW340955, AI683013, AA135812, AA767902, H88636, A1273005, AA158212, AA405245, AA242773, AW078958, A1273047, AA493696, A1250660, AW026945, and AL134115.
HDQMD13	1950	924108	1 - 260	15 - 274	

HDQMD14	1951	783547	1 - 328	15 - 342
HDQPI83	1952	780731	1 - 687	15 - 701
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HDRAB68	1953	752316	1 - 196	15 - 210	
HDTAG28	1954	765834	1 - 159	15 - 173	
HDTAQ55	1955	728772	1 - 353	15 - 367	AA380977
HDTAY23	1956	973925	1 - 352	15 - 366	AA504311, W45240, AA431996, F13467, F13502, and H10924
HDTBF27	1957	683389	1 - 759	15 - 773	AA234529, A1565424, A1624101, A1694224, and AC005021
HDTBL45	1958	785534	1 - 431	15 - 445	
HDTBO48	1959	945083	1 - 505	15 - 519	
HDTBO74	1960	765555	1 - 453	15 - 467	AA480145, AA837058, AA663306, F19258, AA713815, AA491814, AA365347, AA551509, A1205126, AA228329, AA826032, A1003172, F26719, A1886176, A1921188, AA515435, A1003743, T16592, AA095511, A1054246, AW088058, A1820743, A1565245, AW088202, A1282907, W60516, AW080134, AW406447, A1281903, AA340003, AA652764, A1053816, A1904894, A1567674, F29989, AA482711, AW301818, AA361344, A1282832, AA593060, AL041368, A1358229, AA318652, A1307426, AA077935, AW406755, AW104748, A1365988, A1474713, AW339687, AF177861, AA365144, AL138265, AW361583, A1635272, AA856981, N43757, A1963095, A1791503, A1732546, AA077817, AW071063, A1214510, A1802526, AA450199, F31204, AW074398, A1791290, AW022046, A1921649, H64777, A1679782, F35659, A1989742, A1376100, A1561335, AA292574, AA557325, AA501722, AW074059, AA252763, A1356904, A1922654, T12272, AA515128, A1564284, R72392, AA428414, AA743956, A1570138, A1536555, A1929531, AA077776, AA434484, A1284640, A1537955, A1446601, AW162049, A1251002, AA729264, A1962050, AA228420, AA515051, AA581342, A1890923, AA229785, AA658235, AW029038, AA932099, A1610159, F36273, N25303, A1917271, AA584749, AA653057, A1471481, AW166815, AA745410, AA919037, AA243452, AA218645, AW074207, A1610920, A1499134, AA580662, AL138455, A1139968, A1051551, A1286356, A1188469, A1110770, F37286, AA826004, A1053672, A1345675, A1339850, A1345681, A1357551, R41717, T06556, A1334443, A1865364, AW008317, AA342958, A1471729, A1048925, A120674, A1049634, AW193265, A1816537, A1003611, W25284, AA654627, A1951863, AA364567, AA843450, AW401783, AA501784, A1079667, AW302101, AA077952, AA829106, A1248679, F32395, AL119391, A1742771, AW276435, A1547286, AA443065, N71724, A1285615, AA652057, AA441788, AA649642, A1149915, AA501344, A1286264, F25203, AW438916, AW340844, A1469172, AA650244, A1493615, AW419262, AL048616, A1312149, AW440836, AW105538, AA634855, AA774923, A1049722, AA602069, AL046898, N71596, A1912322, A1299050, AL079804, AA558227, AA886584, AW302309, AW276827, A1807372, T71998, A1268812, A1133636, AW265294, A1926124, AA904218, AW339568, A1431966, AA559290, A1433187, N27353, AA125788, A1469878, AL040913, A1803348, T40338, AW274101, A1421213, AA648110, AA366035, A1951889, A1951928, AA757474, AA192740, C06327, A1368745, AA178953, AL043756, AA503258, A1368256, AA320977, AL038785, F18974, A1133164, AC002426, AL034548, AL109756, AL021578, AC004903, AL009181, AC005089, AC006312,

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HDTBO94	1961	869818	1 - 562	15 - 576	N69991, W47065, AW368643, AW340968, W00799, W04207, A1420674, AW027417, AA779727, AA736509, AW263261, A1090172, AA814921, A1924139, AA375842, AA375767, AA494558, A1422731, W46965, AA969233, A1142954, A1161089, A1167233, AA737756, A1681576, AA449149, AL049415, A61271, and A61272.
HDTBQ20	1962	886757	1 - 458	15 - 472	AA625147, AL044429, N95514, A1521188, M78692, AA083339, AA625350, AA916868, R46588, and AA935301.
HDTBQ34	1963	703446	1 - 453	15 - 467	

HDTBQ47	1964	720298	1 - 369	15 - 383	A1933595,
HDTBQ56	1965	799840	1 - 1310	15 - 1324	A1384076, N21097, A1167276, A1275519, AA495978, AW103498, AA235681, A1224882, A1565119, N31109, A1797229, AW130630, AA425033, AA490486, A1635704, AA463747, AA766927, AA631521, AA829333, AA490708, AW188888, H11440, A1873833, and AA236876.
HDTBQ80	1966	775420	1 - 356	15 - 370	AA860394, A1659377, A1440260, A1479292, AA514684, A1499986, A1500523, A1539800, A1340519, AW082532, AL047344, AA641818, A1648699, A1915295, A1345415, AW148536, AL040011, A1625926, A1446511, A1287233, A1445256, A1952493, AL042515, AW198133, A1500061, AW151652, A1571442, A1470717, A1611738, AW055252, A1890907, A1686690, AW023871, A1453248, A1860027, A1872423, A1378123, A1678446, A1288305, A1571699, AW130930, R81679, A1500714, A1128239, A1874261, AW089844, AL038715, A1696603, A1095003, AA765198, A1559619, A1683395, A1824361, AW081866, A1630928, A1540354, A1624938, A1309306, A1633125, A1434969, A1783785, A1271796, A1417790, A1859991, A1799313, A1686565, A1620864, A1538885, AW129264, AA604875, A1568293, A1433994, A1539723, A1638644, AW020381, AA503384, A1572096, A1539690, A1061405, A1345688, A1635634, F35031, AL041150, A1863382, A1923989, A1690813, A1524179, A1554301, A1917428, A1623736, A1432040, A169020, A1440238, AW151136, AW022636, A1866465, A1570861, A1589428, AW021189, AA575922, A1620056, AW163554, A1680221, N22276, A1565172, A1862043, A1950729, A1631216, A1174799, AA731184, AW075382, A1658566, A1348854, A1499335, A1623396, A1683173, A1866458, A1241741, A1648454, AW166937, A1590043, F34241, A1554283, AW083750, AW105613, AW193620, AW262491, A1439452, A1613314, A1499104, A1702019, A1537273, A1801325, A1873644, AW058341, AW151831, A1744243, A1340559, A1818562, A1312963, A1361701, A1865906, AW104641, AW088145, A1291214, A1539080, A1917331, A1582871, A1436458, A1499581, A1274655, AL036548, AW167146, A1648494, A1621341, A1524654, AA808175, A1656270, A1679550, A1671429, A1698391, A1538564, A1818240, AL121564, A1915291, AW152182, A1538575, A1801064, A1582932, A1560545, A1619820, A1735654, AW021662, AW195253, A1434731, A1827058, AL120987, A1348901, A1539667, A1889189, A1811192, A1521560, A1521005, A1872545, A1479577, A1079226, A1538764, A1473536, A1927233, A1539260, A1095192, AW151893, AA693444, AW196720, A1866469, AW161156, A1422855, AA502794, A1559752, A1884318, A1355779, AW238688, A1114703, A1370623, A1570056, A1815233, A1632036, A1537408, AW021717, A1566399, A1917252, W74529, A1918809, A1336586, AW080700, A1583484, A1797578, AW268306, AA579618, AW051453, A1701097, A1636507, AW090001, A1345612, AL043326, A1263331, A1472487, AF076464, AF139986, AL117575, AL117416, AL133665, I48978, I08319, AL137530, U62966, AF013214, AF162782, Z37987, AC007043, AL050024, S68736, AL032822, L31396, L31397, AL109672, A08916, Y13350, AL133075, X66366, X00474, S61953, L04849, AL080110, AF176651, E01614, E13364, A08910, ARO50959, A08909, AF106862, ARO38854, Y10655, D44497, AL049382, AF111851, AF118092, AF185614, AF182215, I89947, AF113694, AL117429,

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HDTBR15	1967	660236	1 - 449	15 - 463	AI753313, AF004877, and AC002528.
HDTBR50	1968	846630	1 - 453	15 - 467	
HDTBV02	1969	920008	1 - 461	15 - 475	
HDTBV18	1970	893761	1 - 367	15 - 381	D25267, AA635901, AC005399, AC007227, AC004685, AL022316, AL080243, AC005324, AF064858, AC005305, AL021937, AF003626, AL049694, AC005330, U80017, AC005031, AC005874, AF134471, AC005920, AC004883, U07563, AC004938, Z98946, AL033527, AC007052, AL049631, AL022345, AC007263, AC004491, AC005571, AC005756, AC005726, AC006013, AL031597, AL033517, AC005409, AC003663, AC004253, AL049776, AC006014, AP000466, and AL049871.
HDTBW52	1971	726060	1 - 507	15 - 521	
HDTBX47	1972	719530	1 - 424	15 - 438	AC004056.
HDTBY88	1973	934472	1 - 495	15 - 509	AA868305, A1700890, AA789239, A1803004, A1694352, AA043382, F08474, R21498, AF112183, AF112184, and AC005354.
HDTCC60	1974	740350	1 - 390	15 - 404	AA864722, AA319763, AA248838, AA193325, AW367238, A1688661, A1921062, AW024122, and AW130404.

HDTDA45	1975	799875	1 - 697	15 - 711	T97833, T97457, and R09338.
HDTDC23	1976	675331	1 - 511	15 - 525	AI471572, AA502155, AA130647, AW402145, AA599063, AI192863, AL035587, AC005164, AC005562, AB003151, AL050332, Z83840, AC005261, AC004185, AP000509, D84394, AC002477, AC007917, AF111163, AL035653, AC005089, AC005829, AC005529, AC000114, AC005512, AP000496, AC005399, AC006948, AC004076, AP000150, Z47046, AF031078, AF030876, AC004263, AP001009, Z98884, AC005498, Z98885, AF196970, AC006251, AC007228, AC005940, Z68162, AC004882, AL031650, AC004796, AL009181, AL049867, AC005520, AC007630, AL022069, AL031000, AL121655, AL117258, AL1049829, AL024498, AC006137, AC003690, AP000215, AC007308, AC002470, AC006539, AC006057, AF207550, AL034429, Z82198, AC005822, AC003035, AC006538, AL008582, AL022318, AL031595, and AC006241.
HDTDC53	1977	916348	1 - 220	15 - 234	AI205597, AI018716, AA952883, T66939, W86678, AA122311, AI208307, AA843726, AI090688, AW243845, AA618005, R15455, C00676, AI476338, AA371098, AL119399, AL042382, AL079794, AL043152, AL119511, AI288285, AL119457, AI621341, AL043168, AL042544, AL041150, AI540674, AW029401, AL037582, AW168485, AL037602, AI095003, AL038529, AL037454, AI698391, T95813, AW023846, AL036705, AI950664, AW083573, AI818358, AI638644, AL042191, AI963846, AA857847, AI679214, AA908294, AW264727, AI537677, AI538055, AW152182, AI915295, AI868740, AI589428, AW103628, AI866465, AI587000, AW051088, AI758512, AI564290, AI267162, AL079740, AI500061, AI434731, AW022636, N29277, AI553645, AI783792, AI590043, AW020397, AI571551, AI557238, AI678773, AI499570, AI872343, AL119324, AW162194, AL036249, AI802542, AI241901, AL119863, AW082088, AI147292, AW163834, AI683475, AI745329, AI609760, AI850991, AW021373, AI094749, AI345415, AI623941, AL046473, AI289791, AI567971, AI446704, AI280732, AI250627, AI610446, AI559752, AI312210, AA829061, AI249877, AL046595, AI472566, AI561356, AI612913, AL043355, AI538850, AL039086, AW023338, AA805434, AI620810, AW089275, AI813633, AI568114, AI539800, AI309306, AW059713, AI267185, AI475371, AI355779, AI582932, AI682798, AI860673, AI524179, AL041996, AI280607, AI679211, AW161156, AI673363, AW020419, AI929108, AI583032, AI345688, AL040449, AI634919, AL045266, AI680270, AI342023, AI590686, AI536685, AI783997, AI471429, AI866780, AI401697, AI801325, AL046466, AI884318, AI796743, AI433968, AW128841, AI860652, AW104683, AI589004, AI679506, AI699823, AW024374, AA975952, AI367680, AA503384, AI288050, AW105431, AI354998, AW129616, AW008226, AI573060, AI242248, AI565172, AI610293, AI655932, AI953767, AI567846, AL135065, AW128834, AW132071, AI524654, AA831948, AI683173, AW008166, AW024275, AI110603, AI589134, AA766104, AI624529, AW050578, AW088899, AI469505, AI118781, AI635492, AI890391, AI923989, AI284517, AI368579, AI678599, AI932458, AI274507, AA479803, AI811840, AI864102, AI917963, AI538764, AW193872, AI824576, AW163554, AI538637, AI625701, AI366922, AI627604,

HDTDD49	1978	799872	1 - 448	15 - 462	A1251221, AW403717, A1371251, A1270295, A1478902, A1432644, AA580663, AW148536, A1422688, AW088560, A1921092, AW151136, AL040011, AW008353, A1288305, A1676003, AA641818, A1540458, A1468872, AL048323, AA808175, A1567582, AW132001, A1446373, AL048340, A1648458, A1281757, AL047675, AL119791, A1252077, A1889189, A1932794, AW021717, N71180, AW029186, AW129264, AW073907, A1343091, A1633061, AA768046, A1335363, Y11587, U17594, U35846, A137480, AF132676, AF061836, AF030513, I48978, AL049347, AF047716, AF026816, I667328, AL133075, AL133113, Z972114, I89947, AL133637, AF097996, AL122098, AF017152, AF146568, AR034821, A65341, AL133049, S83440, AR068753, AB016226, AL137271, AF118092, AL137554, A93350, A08910, A08909, A65340, A08913, AF102578, S61953, A08908, AR020905, AL133067, AL137557, A77033, A77035, I33392, U95114, A08912, U37359, I09499, AF177401, AR038854, AL133072, E02221, S77771, AL023657, AL137550, AF106862, A18777, E12747, X63162, S76508, AB029065, A21103, AF126247, AF067728, U49434, AF104032, A08916, AF113689, E05822, X98834, I79595, AF002985, I18355, AL117587, AL030172, AL110206, AL133557, X92070, A08911, I34392, AL110218, A08907, AL122110, AL117463, AL110197, M96857, Z37987, AL122100, AL137533, S53987, AL080148, A1005690, AR053103, AL137523, I48979, A1238278, I87620, S69510, Y14314, Y07905, I89931, AL136884, AL080159, AF183393, AF111849, I89934, AL110225, AF061981, AF139986, X72889, I49625, AF106945, AF145233, AL049339, Y10823, AF087943, AL080140, I42402, Z82022, U55017, X67688, AB007812, M27260, AL137547, A1010277, AL122093, AF068439, U49908, AL133560, L04504, E01314, AL137529, A45787, S68736, I32738, AF106657, M92439, AL133665, L04849, AL137526, AF113677, A1000937, I589079, A76335, AR029490, AF195092, AF180525, AL137488, AL133112, AF182215, A23630, I00734, A15345, X98066, AF067790, AF031903, AL137286, Y11254, AL122104, AL137530, AL080154, I26207, A1242859, X84990, AL137574, E00617, E00717, E00778, AL137294, X72387, AL137521, AL122121, X83508, AC003032, U75932, AR013797, X82434, S36676, X79812, X87582, Y10936, AL049430, AL049460, AF107847, AL122106, AF017790, X55446, AL137711, AF185576, AL110224, D16301, X81464, AL117648, U54559, AL050277, Y13350, AF026124, AF205861, I03321, A18788, AC004227, Y10655, S75997, AF162270, X66862, AF215669, I33391, AL133640, AF111851, X52128, AL117460, I17544, AL137256, AL122118, AF090901, A03736, AL137292, I68732, AF113691, L13297, AF111112, D83989, AF113694, Y10080, AL110222, AF036941, AL137640, X83544, Z72491, AF210052, AL117583, AF031147, AL137459, X06146, E07108, AF090903, AL050116, AF058921, U00686, AF040751, AL110228, AB030279, AF057300, A1012755, AF057299, AL137479, AC002467, AL050170, AL080124, and AF169154.
HDTDG42	1979	713588	1 - 445	15 - 459	AA218835, AA719073, AW270451, AC001226, AC000117, AC006262, Z81313, AL079295, AC004491, AL033527, AC002351, AC004381, AC006146, AL133245, AC002994, AL031594, AC005180, AC004929, AC004821, AC005829, AC005952, Z80232, AF196970, AC002563.

HDTEG70	1980	587730	1 - 418	15 - 432	AL049836, AC005585, AC008372, AP000201, AL049776, AC007225, AL031283, AF207550, AC005578, AP000097, AL080242, Z83844, AC004703, AF001550, AC005837, AL009181, AC005781, AP000043, AP000111, AC005089, AC007283, and AF050154
HDIDL88	1981	868565	1 - 707	15 - 721	AL022396
					AL140351, A1859347, AA768342, A1864674, N80197, AA722381, AA130959, A1051671, AA043186, AA121548, AA987515, AA100477, AW193146, W04309, N21020, H94056, A1187288, AA844332, N21328, N47889, A1952434, AA975893, AA045598, I180956, A1354682, AA621534, A1859814, AW089493, AA530873, AW275917, A1025466, N92869, AA768339, AA417265, A1567303, AA828283, A1289086, AA729835, A1564973, AA580315, A1952495, A1419448, T40562, A1289415, A1039892, A1014387, AA917482, AW088039, AA587755, AW190165, A1371694, A1018462, AW377665, A1083853, AW103201, AA868207, H51296, A1920875, A1833059, A1288157, D12258, K63140, A1942324, A1873582, A1699667, A1091426, AA127712, AW406948, D12293, AA074395, AA342276, A1955989, T91580, A1350331, AA053266, AW138496, AA342277, A1832968, AW084334, T91268, A1816957, D12294, AA193223, A1866230, AA807562, C75247, A1144388, AW377656, W22908, AW381854, AW381856, A1864799, A1802279, T91628, N74141, A1310801, AA788629, A1815642, AA370966, AA417302, AA894373, AA314322, AL122042, and AC007842
HDIDP37	1982	571417	1 - 513	15 - 527	
HDIDT33	1983	587773	1 - 541	15 - 555	T12054, and T12053
HDTE119	1984	912765	1 - 399	15 - 413	AL365424, AA761247, A1270301, AA903663, AA461365, A1124751, A1493506, AA946682, A1739428, A1990438, A1312115, A1927988, A1638765, A1830148, A1739606, A1561007, A1934691, AF165522, and X56389
HDTEJ30	1985	915445	1 - 475	15 - 489	AL035965, and AC006501
HDTEN69	1986	650840	1 - 618	15 - 632	
HDTESS0	1987	964709	1 - 423	15 - 437	AW340512, A1807894, AW082409, AW054749, and R94399
HDTEFC55	1988	731397	1 - 560	15 - 574	
HDTEFD13	1989	835596	1 - 429	15 - 443	
HDTEFE23	1990	675407	1 - 360	15 - 374	W92422, and AA013353
HDTEFI53	1991	738221	1 - 108	15 - 122	T86673, AW190189, and A1193121
HDTEFS1	1992	924898	1 - 491	15 - 505	
HDTEFQ26	1993	681234	1 - 605	15 - 619	R80296, AW235653, A1949101, AA470449, AC002044, AC005234, X54171, AP000348, AC006230, AC007129, AC005274, and AC004230
HDTEGS9	1994	893721	1 - 213	15 - 227	
HDTEG115	1995	953336	1 - 641	15 - 655	A1765425
HDTEG103	1996	923452	1 - 615	15 - 629	

HDTG164	1997	799860	1 - 133	15 - 147		
HDTGK27	1998	682689	1 - 416	15 - 430	AA489578	
HDTGP34	1999	855739	1 - 562	15 - 576	R69491	
HDTGP93	2000	724545	1 - 227	15 - 241		
HDTGW21	2001	785047	1 - 369	15 - 383	AB007857	
HDTGW52	2002	726197	1 - 100	15 - 114		
HDTHA89	2003	838813	1 - 345	15 - 359	AA745404, N23046, A1057391, AA001345, AC003101, AC004526, AL031670, AC009721, AL109748, AC004256, AC004090, AP000152, AP000010, AL021155, AL022330, AC005007, AL023584, AP000546, AC005969, AC003086, AC000379, AL023553, AC006543, AC007283, and AC006011	
HDTHB41	2004	711849	1 - 475	15 - 489	AR035806	
HDTHE95	2005	795180	1 - 494	15 - 508	AA847163	
HDTHK91	2006	789790	1 - 616	15 - 630	AC004611, AC005551, AL096701, Z97054, AC005529, AC003101, AC005527, AC005011, AF053356, AC004813, AC006965, AC004985, AC004167, AC002375, AC002565, AC005874, AF134471, AP000036, Z83844, AC003684, AC005622, AL132987, AC005837, AC005102, and AL049780	
HDTHM43	2007	851854	1 - 483	15 - 497		
HDTHQ45	2008	799861	1 - 163	15 - 177	AW089395, A1053518, A1345012, A1358008, AA837739, AA664248, AA610530, AW238137, AA837796, AA993165, AW238250, AA084950, N70293, AA599749, AL047254, AA594220, T05354, A1124706, AW161966, AA001398, A1683742, AA666066, AW440424, A1223626, AA583579, AW130446, AA583568, A1568849, A1274006, A1921692, A1567831, A1445768, AA586553, D25667, A1889648, A1613487, A1336206, AA654038, AA658918, AA047045, A1572680, A1884861, A1118567, AA774119, AW021519, AA649660, F03603, A1375036, A1083707, A1246061, AA599080, AA832124, AA832152, AA470958, 1186399, H47461, A1205348, AL134332, AA224525, AL036070, A1054090, A1761566, A114645, A1872117, A1744381, A1249853, A1284543, A1254770, A1251944, A1251034, A1251203, A1251284, A1250552, AA304790, AA078088, AA295893, AA295899, H77666, AW149972, AA564682, AA593388, A1354341, AW127597, AA468289, AA911520, A1732682, A1869786, A1922583, AA347653, AA780648, A1521042, AW327555, A1167179, A1912505, AA078509, AA742775, H37892, AC002073, AL031284, AC004895, AC002347, AB020863, AL023880, AL049543, AL137474, AP000959, AC004522, AC007387, AC005274, AC004131, AC004859, AC005519, AF061032, AF003626, AP001052, AC005664, AC008134, Z98751, AC005924, AC004837, AC000097, AL031663, AC006547, AC002351, AC000025, AC005527, AC005529, AL034555, AC004150, AC000379, AC002049, AC002054, AL113328, AL021332, AC004701, AC002472, AP000550, AC007664, AC008018, AC005358, AL133216, AL080243, AL035457, AL049569, AC006211, AL020997, AC007227, AC000083, AL031287, AL031775, AL033517, AL021878, AC004686, AP000346, AC002312, AC007695, AC004778, AC005800, AL031848, AC006210.	

					Z92542, AL050332, AC007637, AC005747, AP000355, U77080, U77078, AC008042, AL049829, AC004181, AC002299, AC005695, AL049591, AF104934, AC005017, AP000555, AL022318, Z85996, AC002091, AP000350, AC004149, Z97030, Z68323, AF117829, AC005005, AC003042, AL034379, AL034417, AC005375, AL079342, AC003693, AC006449, AJ006345, AC005562, AL117338, AC002331, AC009031, AC004448, AL109982, Z93020, AL132987, AC003108, AB026899, AC009263, AP000352, AC004953, AC005723, AL049779, AC005952, AC005086, AP000260, AP000099, AP001065, AL034369, Z83840, AP000336, AC022517, AC007226, AC004083, AC006115, AC007376, L44140, AF049895, AC005531, AL031667, AC005186, AC004106, AC005903, AP000068, AC005865, AC004955, AC005247, U91318, AC005189, AL049844, AC005480, AL109798, AC004381, AC006160, AC002991, U15422, AL121652, AD000812, AC003110, AC004017, AC007746, AC002126, Z99127, AL035416, Z98941, AC006120, AC005740, AL049781, AC002368, AC007240, AF001550, Z98742, AC002128, AC007676, AC007919, AL078639, AL031433, AC006088, AL121923, AL135744, AL031282, U47924, AL022238, AC002551, AL024494, AF051976, X77835, U77079, U77081, AC005049, AL050306, AL049697, AC007371, AL031685, AC007386, AL008582, AC005913, AL022302, AJ229041, AC005730, AC007684, AC001644, AL096703, AC006959, AL031588, AL031056, AC007444, AL121877, U96629, AC006312, AP000500, AC005694, AC007056, AP000353, AF071746, AC006950, and AC002404
HDTHQ15	2009	923899	1 - 599		AA215544, AA262119, D87446, and AF060565.
HDTHQ55	2010	799859	1 - 417		
HDTHW16	2011	799839	1 - 623		
HDTHZ46	2012	957669	1 - 362		HS9787, AA911636, AA631183, AI025526, AI923762, AI740793, AA743390, AI202128, AI660488, H82705, and AI368872
HDTHB38	2013	971665	1 - 922		AI872294, AW207586, AW195605, AI693146, AW075561, AW068887, AA993676, AI758241, AI799473, AI031659, AI419921, AA961774, AI355364, AI190742, AW451406, AA598664, AA603695, AW057857, AI807320, AI510700, NS0786, AA737532, AA766363, R68978, AI124003, AI445187, AW102731, H04784, AI122873, R69607, AI253794, AA897328, AA598571, AI540516, D19777, AI267421, NS5144, H04882, AA334830, and AI135745
HDTHC48	2014	828038	1 - 406		H82510
HDTHC74	2015	838780	1 - 536		AA084725, AA189117, AL048925, AI801482, AI284640, AL046409, AI963720, AL042753, AA127353, AI679782, AI270117, AW406755, H71429, AI334443, AW419262, AW072587, AI431303, AI570261, AI133164, AW276827, AI368745, AA490183, AW193265, AI613280, AW302013, AL119691, AI364020, F36273, AA610491, AL043719, AW303196, AI281881, AI350211, AA523810, AW261871, AI858451, AI434695, AI358229, AA581903, AW301350, AI061143, AI567076, AI754336, AW327868, AI240168, AI143242, AI341664, AA984708, AW088846, AI538852, AA503473, AA649542, AA649484, AA491814, AI365988, AA578481, AI138265, AI471543, AA577906, AI061334, AW2655393, AA680243, AW270270, AW274349,

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HDTID61	2016	908946	1 - 730	15 - 744	<p>AC002544, AC005076, AC004253, AC005071, AC006441, AC005868, AF015160, AC005031, U18395, Z93016, AC006051, U91326, AC007226, AL132992, AC006040, AL132985, Z54073, AC004013, AC005104, AC004033, AL080243, AB019438, AC007731, AC003670, AC004626, AL109618, AC002432, AC008012, AL022316, AP000555, AC004948, AC004019, AC004014, AL050308, Z98745, AC005775, AC005342, AL035086, AP000211, AP000133, AL078644, AC018769, U18392, AC007878, AC005668, AC002195, AC006277, AC004040, Z98950, Z97196, AC005081, AC005527, AF015149, AL022147, AL031770, AC004502, AC005553, AF031076, Z82901, AC005666, AL021940, AC003015, AP000504, AP000090, AC005529, Z75741, AP000350, AC003986, AC005011, AC002429, AC006480, AC005242, AL121652, Z83855, AC003684, AC006501, X78901, AL049830, AL022328, AC002545, AC008079, X55925, AC006544, and AF077058</p> <p>AW439565, A1527530, A1887525, A1890158, A1859703, AW118200, AA749212, AA430563, AA883993, AA029288, A1095763, AA043743, H03766, A1598263, A1634574, A1079917, AW243702, AA452390, A1634584, AA132531, A1610785, N51151, AA602187, AA971019, A1926025, A1279436, A1220990, AA888601, AW131171, AA969116, A1818902, H02869, AA579993, AA621433, A1922025, AA369249, A1469540, AA021150, A1300047, H88995, N47896, R70915, AA043742, AA912768, A1926028, AA937998, AA029756, AA834867, A1183313, AA342184, A1873839, AA433979, AA167094, A1017196, AA866089, AA993239, AW371991, AA028917, A1926057, AA911119, H88778, AA283401, and AA283400</p> <p>AA938105, R98945, A1110760, AL119762, AL041013, A1114869, AW075511, AW102811, AA806796, AA070456, A1133516, A1061646, AA767276, AA524821, T74382, A1313166, AA219225, AA224525, AA601348, A1093030, AA083046, AA502104, AA531580, AA836811, AA081825, T40308, AW151713, AA601204, AW440545, AA846568, AL046586, AW274346, AW161966, AA765736, A1138254, AA774222, AW245747, AA468456, AA377927, AA774780, T56253, N70044, R70821, AW407632, A1471603, AA806799, A1499134, R80876, A1826263, AA614180, AA634889, H46122, D82542, AA664909, A1345654, A1708009, H40936, AA483929, AW103758, A1305766, A1284640, AW168453, AA121894, AL035659, AL121603, AC002470, AC004167, AL031846, AL035420, AC005412, AC007021, AC005280, AL096774, AC003043, AC006084, AC004738, AC003664, AL031255, AC000052, AL035400, AC007731, AL049780, AC005531, AL031767, AC007055, Z83819, AC004149, AC002301, AL080243, AC004150, AC005500, AP000553, AC002072, AC009516, AL034549, AC004263, AL139054, AC004019, AC006285, AC004675, AC004859, AL049758, AC005084, AL022721, AL035587, AC005411, AC005694, AP000966, AF088219, AC007216, AL022165, AC004895, AC003108, AC006042, AP000555, U80017, AC000026, U85195, AC006241, AL031447, AC004216, Z95118, AC009044, AL031577, AC005031, AC005670, AC000087, AC004797, AC004815, U72787, AC005911, AC007057, AL022316, AC005089, AC002476, AC005666, AC005003, AL022302, AL132712, AE000658, AC002059, AC004765, AC006146, AP000133, AP000211, L44140, AL117347,</p>
HDTIF01	2017	883070	1 - 515	15 - 529	<p>AA938105, R98945, A1110760, AL119762, AL041013, A1114869, AW075511, AW102811, AA806796, AA070456, A1133516, A1061646, AA767276, AA524821, T74382, A1313166, AA219225, AA224525, AA601348, A1093030, AA083046, AA502104, AA531580, AA836811, AA081825, T40308, AW151713, AA601204, AW440545, AA846568, AL046586, AW274346, AW161966, AA765736, A1138254, AA774222, AW245747, AA468456, AA377927, AA774780, T56253, N70044, R70821, AW407632, A1471603, AA806799, A1499134, R80876, A1826263, AA614180, AA634889, H46122, D82542, AA664909, A1345654, A1708009, H40936, AA483929, AW103758, A1305766, A1284640, AW168453, AA121894, AL035659, AL121603, AC002470, AC004167, AL031846, AL035420, AC005412, AC007021, AC005280, AL096774, AC003043, AC006084, AC004738, AC003664, AL031255, AC000052, AL035400, AC007731, AL049780, AC005531, AL031767, AC007055, Z83819, AC004149, AC002301, AL080243, AC004150, AC005500, AP000553, AC002072, AC009516, AL034549, AC004263, AL139054, AC004019, AC006285, AC004675, AC004859, AL049758, AC005084, AL022721, AL035587, AC005411, AC005694, AP000966, AF088219, AC007216, AL022165, AC004895, AC003108, AC006042, AP000555, U80017, AC000026, U85195, AC006241, AL031447, AC004216, Z95118, AC009044, AL031577, AC005031, AC005670, AC000087, AC004797, AC004815, U72787, AC005911, AC007057, AL022316, AC005089, AC002476, AC005666, AC005003, AL022302, AL132712, AE000658, AC002059, AC004765, AC006146, AP000133, AP000211, L44140, AL117347,</p>

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HDTIF90	2018	787413	1 - 490	15 - 504	AL134148, AL119391, AP000356, AC004820, AR060471, AC005940, AC004253, AL035684, U29953, AP000212, AP000134, AC002287, AC005015, AC003043, AC005412, AC004672, AL117337, U91321, AC007425, AL035086, AF205588, AC004216, AC005179, AC004098, AC007676, AC005037, AP000349, AC016027, AC016830, AL133396, AP000252, and AL079306.
HDTIG34	2019	799851	1 - 417	15 - 431	
HDTIH43	2020	935643	1 - 536	15 - 550	
HDTIM13	2021	926952	1 - 439	15 - 453	AA437170
HDTIR88	2022	931122	1 - 680	15 - 694	AF742572, A1819310, A1373601, A1458037, A1478168, AW243260, AW182412, A1628739, H96226, AA911198, AW237157, AA621899, A1963732, AA036662, A1699482, AA935821, and A1560638.
HDTIV22	2023	883109	1 - 398	15 - 412	
HDTIV37	2024	799867	1 - 590	15 - 604	AI110718, and AC006121.
HDTIV62	2025	799835	1 - 639	15 - 653	AA290838.
HDTIW03	2026	922928	1 - 471	15 - 485	AC003992.
HDTIX57	2027	799828	1 - 596	15 - 610	A1660431, AA705801, and AF112299.

HDTIY24	2028	799854	1 - 391	15 - 405	AW392670, Z99396, AL119457, AL119484, AL134902, AL119301, AL119363, AW372827, AL119497, AL119443, AW363220, AW384394, AL142132, AL119319, AL119341, U46351, AL119324, U46346, U46350, U46347, U46349, AL119355, AL119355, AL119444, AL119496, AL119483, U46341, AL119439, AL119418, AL119399, AL037205, AL119522, AL119401, AL134518, U46345, AL119396, AL134538, AL042965, AL042450, AL042614, AL134525, AL134536, AL042970, AL042975, AL042984, AL042984, AL043029, AL043019, AL042542, AL042551, AL043003, AL119464, AB026436, AR054110, AR066494, A81671, AR060234, and AR069079.
HDTIY26	2029	799855	1 - 409	15 - 423	AA281844, A1284640, AA862227, A1133164, A1281465, A1471481, A1291124, A1282832, A1291268, A1341548, AL046409, A1266133, F36273, AA340747, A1298710, AW157005, A1341664, A1289067, AW193432, A1431303, AA491814, A1688846, AW439558, AA992126, A1358343, AA133986, AA582554, A1028510, AW276827, AW193265, A1536625, AW339568, A1061334, A1340453, A1761471, AW419262, A1350211, AW276435, AW166815, AA984187, AA284184, A1587583, A1587565, A1963720, AA865262, A1754658, A1613280, AL041706, AW274072, A1610159, A1079910, A1004591, AW008317, A1344443, A1569086, AW193609, A1801591, A1053672, A1358501, AA719805, AL040054, A1198376, AA649642, A1085719, A1830390, AF150152, AA350859, A1375710, A1814735, A1937850, H79308, A1143242, A1344844, AA347927, A1653886, AA669840, AA657835, A1619497, AW166611, A1832865, A1246996, A1460050, AW188976, A1049634, A1709365, AW276817, AA977743, A1246796, AL043578, A1193007, AW131457, A1371070, AW021917, A1285696, AA347930, AW410400, A1434695, AW302013, AW406447, A1590958, AA557686, AA713815, A1590772, A1884487, AW055226, A1589230, A1653515, AW341903, AW088058, A1676218, AL042753, A1379719, AA593471, AA121777, AW265385, AL048925, AC005324, AC004796, AC006125, AL135744, AC009516, AC005696, AL133245, AC005332, AC003663, AL049766, AC005913, AL132777, AC004987, AC005740, AF109907, AL022163, AC002402, AC004963, AC006597, AP000557, AD000092, AC005412, AL031667, AC006312, AC012627, AC005699, AC004534, AL008718, AC005180, AL031054, AC000353, AC007842, AL033376, AL021808, Z93930, AC010186, AC005725, AL049836, AC005598, AC003684, AC004638, AL035420, AP000558, AC004675, AL035072, AP000959, Z95152, AC006126, AC005670, AC008249, AC004825, AF088219, D00591, AC005736, AC006480, M87914, U52112, AL023494, AC004998, Z99716, AC005006, AC005237, AC005531, AC004386, AC016831, AC005519, Z97184, AL050332, Z93017, Z98950, AC007793, AC006251, AC007637, AC005253, AC007151, AC002398, AP000216, AC005387, AL079340, AP000553, AC006050, AL078476, AC004876, AC005846, AP001053, AC004929, Z93241, AC006211, AC004858, AC008056, AC007191, AC005154, AP000692, AL049745, AP000047, AC007227, AC003119, AL132994, AF047825, AC006999, AC002307, AC005274, AC005071, AC004895, AL049830, AC009227, AC005089, AP000115, AL031432, AC012085,
HDTIY41	2030	799853	1 - 641	15 - 655	

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HDTIY69	2031	799857	1 - 493	15 - 507	
HDTIZ44	2032	925574	1 - 388	15 - 402	AA736584, AW075941, A1803986, AW075748, AA480329, AA749202, AA804593, A1214324, AA907245, AA905861, AA806181, A1825149, A1479015, A1766668, A1312426, A1334900, A1334929, A1250558, A1334885, A1379810, A1307204, A1309438, A1340732, A1349156, A1334899, A1271248, A1307713, A1224312, A1307488, A1223564, A1053668, A1223777, A1340417, A1349701, A1349296, A134999, A1926593, AL040620, A1696583, AL039086, A1474093, AA648441, A1250646, F37409, A1633061, A1500658, A1918424, AA768725, AW169654, A1587489, A1421149, AW020619, A1249375, A1702527, A1866573, AW080157, AA776730, A1879377, A1421662, AW020381, A1638582, AC004687, A133607, Y10080, L40386, AF067728, I42402, U76419, AL050393, AF107018, AF004162, AF013249, AF044221, AF105427, AF074604, AL117500, S69510, L24896, Z82022, A41575, AL137463, X98066, A83556, I29004, X66417, X60769, AL13608, Z49258, AF084644, AF084645, U80742, AL133049, AF112208, AR012379, AL133557, AF199509, E13998, AF126372, AC005156, AL080124, and AF038847.
HDTIA54	2033	799856	1 - 66	15 - 80	
HDTJC51	2034	799850	1 - 313	15 - 327	
HDTJ116	2035	918631	1 - 846	15 - 860	AW117866, and AA279393.
HDTJ137	2036	799834	1 - 539	15 - 553	R33692.
HDTJ102	2037	913787	1 - 163	15 - 177	

HDTJJ55	2038	856558	1 - 1012	15 - 1026	AI123328, AI761674, AI028395, AA883324, AI494492, AW340221, AI082842, AI739107, AI350566, and AI219506.
HDTJKSI	2039	851897	1 - 574	15 - 588	AA631510, AA847102, AA570673, AA484892, N76216, T48723, F27015, AI683552, AI624551, AL044271, AF121178, AA558366, AI446205, AW270768, AW008074, AI814059, AI291037, AA603400, AA297195, AA968509, AW277174, AI636439, AA502110, F32248, AI620808, AL045298, AA535494, AA493840, H72688, AI245423, AA503144, N25079, AI890688, AI890102, AA835814, AW189550, AI889580, H85059, H71642, AI075876, C13996, AI469577, AC005529, AC007314, AC007676, AI000813, AC004882, AC002115, Z97055, AC008071, AC002465, AL078638, AC002302, AC006398, AC005332, AC006139, AC005690, AC004671, AC008012, AC004874, U91323, AL034423, AC007529, AC004862, AC002480, AC005235, Z83822, AL035361, AC004381, AC005183, U91319, AC003957, AP000282, AP000514, AC006064, AP000466, AP000108, AP000040, AC007425, AC000026, AC004616, AB020865, AC007450, AC005041, AF049895, AC002059, Z97876, AL033376, AC005018, AL034379, AL035089, AC004887, AL009181, AC005598, AC003976, AC006547, AC005049, U95740, AC004834, AL008718, AL008729, AC007011, Z84480, AL021707, AC004033, AL031728, AC002288, AC005011, AC005046, AP001054, Z99774, AC005409, AC006213, AC000072, AF001548, AC005701, AC000120, AC005243, AL122020, AC004551, L77569, AC004865, AL121653, AC005104, AL020495, AL034555, AL133445, AL132987, Z85999, AC004098, AC005004, AF001552, AC004808, AC002496, AC004963, AB001523, AC006359, AL035072, AP000030, AP000212, AP000134, AL117375, U89335, AL020989, AC009464, AF205588, AC005393, AL022162, AC007860, AC006013, AC004982, AC006430, AF227510, AL121754, AC009263, AC004073, AC006947, AC004594, AC004895, AC002563, AC006544, AL035633, AC005881, AC004216, AL021940, AC004542, AL021395, Z98200, AC007637, AF099810, AC003682, AC004694, AL031643, AL022328, Z84466, AC009225, AC007371, U52111, AL031904, AC006006, AP000088, AC004745, AC005971, AP000011, AP000153, AC007664, AL009179, Z81365, AC009743, AL031673, AC009247, AF019664, AC005086, AP000031, U91318, AL021877, AC005548, AJ004799, AC003106, AC004876, AL049778, AF047825, AL034343, K03021, Z85989, AF045450, and AP000152.
HDTJQ18	2040	805597	1 - 508	15 - 522	AC010196.
HDTJT70	2041	918563	1 - 1094	15 - 1108	AA399660, and AA397890.
HDTJL06	2042	934242	1 - 412	15 - 426	
HDTKP88	2043	799865	1 - 566	15 - 580	
HDTKQ14	2044	886936	1 - 541	15 - 555	AL023653, and AL049683.
HDTKS28	2045	885471	1 - 512	15 - 526	W07055, N98814, R19346, AA461032, Z20457, W93772, W77921, AF155739, and AL050171.
HDTKLI06	2046	934269	1 - 722	15 - 736	AL037304, AI184565, and AC004492.
HDTKX89	2047	799829	1 - 690	15 - 704	
HDTKZ74	2048	799842	1 - 626	15 - 640	AC006378.

HDTLA08	2049	958307	I - 480	IS - 494	<p> AL299823, AA918074, AA134073, AA484892, AA878492, W60522, AA526413, A1150934, H86399, AL049539, AF129756, AC005800, AC004929, AL080243, AC007688, AC002316, AC000353, AC005095, AC005971, AC006006, AC002369, AC004491, AL020997, AF053356, AL096712, AC007685, AC005231, AL109938, AL132712, Z98946, AC007386, U96629, AL139054, AC005082, AL049569, AC004832, AC005529, AL024498, AL031591, AC011198, AL022320, AC006312, AC007684, AL035455, AL050308, Z84487, Y14768, Z97053, AC004858, AP000505, AC007057, AL049872, AC005207, Z93241, AC004882, AL121871, AC002395, AC002310, AC005899, AC005004, AF109907, AP000555, Z80897, AC002477, AL031297, AL109653, AL022396, AC005933, AC004025, AC004685, AC005332, AC005696, AL035494, AL033392, AC007283, AC007425, AF067844, AC005911, Z98742, AC004921, AC007536, Z82208, AC002985, AC020663, AL049712, AF134726, AC008067, AC002301, AL109627, AC003665, AL133216, AL132777, AL049760, AL021937, AC004531, AC007160, AC002347, AL009181, AC004448, AC004655, AF064861, AL031733, AC005566, AL109628, AC005694, U07000, AL034553, AC005837, AC002312, AC007707, AC005015, X03120, AL035681, Z98750, AL034429, AC004854, AF196779, AC005690, AC005924, AC006333, AC002126, AL021391, AC005740, Z98745, AC007324, AL031005, AL035587, AC002425, AF165926, AC007488, X01392, AL117258, AC005261, AF045555, AC004036, AC005527, AC005224, AC005225, Z54246, AC007690, AL010770, AC015853, AL136295, Z93023, AF111169, AC004013, AC006079, AC005041, AL031282, AC007014, AL049795, AC005678, J00098, AC002565, AC006211, AL121578, AF047825, AC005736, AL022324, AC006449, AL049589, AL135744, AP000350, AL031311, AL049869, AC002365, AC005049, AC005846, AC006576, AC006064, AL031657, AF207550, AP000557, AC005632, AC000179, AC006236, AL121603, AC004659, AL031283, AC004149, AC007226, U89337, AC006459, AP000358, AC004099, AP000251, AL000091, AC006251, AL096763, AC006538, Z97055, AC005081, AL049830, AF196969, AC005668, AC007240, AL035664, AC005821, AC005914, and AP000141. </p>
HDTLA53	2050	851826	I - 635	IS - 649	
HDTLB55	2051	905872	I - 558	IS - 572	R54209, H04999, AA179219, M62122, AA143551, W24376, and AA376209
HDTLD17	2052	908601	I - 654	IS - 668	W27400.
HDTLH19	2053	959932	I - 279	IS - 293	
HDTLK51	2054	851846	I - 524	IS - 538	<p> AL1349849, AL590485, AL345695, AL345366, AL10873, AW168420, AA582073, AA605272, AL1755214, AL1754105, AA809546, AA829044, AA228349, AA953238, AA282820, AL042635, AL1754567, AA515905, AA126450, AA748833, AA744018, AA244339, AA410828, AA828834, T11828, AC004832, U91326, U91321, AC004525, AC007708, AC005081, AC005015, AL049832, AC002544, AL022336, AC005089, AC002407, AC003982, AC006236, AC002351, AC007981, AC007324, AC006537, AP000130, AP000208, AC007325, AC005884, AC007879, AL021546, AL049780, AF001552, AL049539, AL121580, AC004858, AC006441, AC004848, AC004929, </p>

	2055	805562	1 - 605	15 - 619	AC006261, AC006039, AL035659, AC005874, AF134471, AL109865, AC002402, AL035495, AC000029, AC007327, AL050318, AP000503, Z82190, AL031730, AC004820, AC006023, AC002350, AC008372, AC006948, AL035086, AC004494, AC004149, AL109628, AC008009, AP000550, AL035045, Z92542, Z84466, AF109907, AC007686, AC002102, AC005580, AC000117, AC005410, AL031680, AC005332, AC007899, AC008132, Z97056, AC004382, AC005324, AC006011, AC002477, AC005919, AP000513, AC009263, AC007676, AP000694, AF024533, AP000246, AF047825, AC004813, AC005952, AC002996, AF048729, AC007358, AC006316, U96629, AC002045, AC007546, AC005538, AC006343, AL031594, AL133448, AL049636, AP000354, AC005841, AC007649, U47924, AF196969, AL034429, AL008715, AL009181, AL049569, AC0012039, AC005482, AC005225, AC008018, AC005011, AC004675, AC004987, AF134726, AL021154, AP000350, AL049830, AC007367, AC007566, AL049869, AC008079, AL021707, AC005358, AL078477, AC002352, AC007367, AC007566, AL049869, Z86064, AC005412, AC004106, AC009248, D87675, Z93023, AC005228, Z95329, AL020997, AC005914, AL049793, AC007114, AL008718, AP000152, AL031313, AL049760, AF088219, AC007564, AC005368, AC003046, AC002511, AC004605, AL022165, AF029308, AC005666, AP000213, AC007055, AC003010, AC002470, AC007488, AL121754, AB001523, AC005050, AC009363, AC005722, AB023048, AC004975, AP000131, AC002365, Z85986, AC004491, AC004801, AL133246, AP000135, and AC009288.
HDTLN80	2055	805562	1 - 605	15 - 619	AW372827, AW392670, AL042978, AL119443, AL037205, AW363230, AW384394, U46341, AL119319, AL119497, U46351, AL119324, AL119457, Z99396, U46349, AL119341, AL119484, AL119391, AL042965, AL119496, U46350, U46347, AL119355, AL119363, AL119444, AL142132, AL119483, U46346, AL043205, AL119335, AL134524, AL119439, AL119401, AL134902, AL134528, AL119399, AL039851, AL119522, AL134525, AL119396, U46345, AL042850, AL119464, AL119418, AL134536, AL134538, AL042973, AL043003, AB026436, AR054110, AR066494, A81671, AR060234, and AR069079.
HDTLP72	2056	799837	1 - 343	15 - 357	AP000224, and AP000086.
HDTLX24	2057	799838	1 - 615	15 - 629	AL049631.
HDTMG55	2058	959633	1 - 494	15 - 508	
HDTMH14	2059	799847	1 - 457	15 - 471	AF067844, and AF143316.
HEIAA07	2060	920257	1 - 300	15 - 314	AC003695, and AC002091.
HEIAA38	2061	907594	1 - 332	15 - 346	
HEIAB13	2062	677400	1 - 339	15 - 353	R32529, W95563, T85989, AA316471, AA046628, AA152270, T87538, AA150254, H67429, R68856, AW406467, T97847, H95214, H58974, H94342, R98261, T99568, T87539, and A1991836.
HEIAB27	2063	683474	1 - 313	15 - 327	AA768235, AA768974, AA767660, and AF033033.
HEIAB68	2064	721652	1 - 68	15 - 82	
HEIAC83	2065	920022	1 - 148	15 - 162	A1890971, AA323085, AA325999, R87547, AA196160, H04821, N83628, AA687084, AA502236,

					AA555085, AL134615, AL127133, AW439625, A1962973, AW439820, A1859849, AA683037, A1081241, A1052770, R69109, AA625787, R66922, AA744098, A1702364, AP000555, AL049563, Z86061, AL035417, AC007842, AC005043, AF001552, AC005233, AL109938, AF121782, AL034423, AC000180, AL031407, AC004682, AL031003, AC007052, AL050325, AC004931, AP000151, AL139054, D83253, AF064857, AC004955, AL031430, AP000009, AC005529, AL022328, and AC0009396.
HEIAD05	2066	932397	1 - 295	15 - 309	
HEIAE05	2067	932390	1 - 211	15 - 225	
HEIAE76	2068	577254	1 - 287	15 - 301	AA659298
HEIAG38	2069	577308	1 - 372	15 - 386	A1688963, AA308708, AW020449, A1914747, AA325521, A1537814, A1811076, AA658101, AA452879, N55560, A1261932, A1863180, AL044468, A1888705, A1755057, AA767864, A1801031, M85982, A1140609, AW079345, A1580252, A1111171, A1684349, AA668736, AA121818, AA227741, A1434725, A1188963, AA419521, AA406457, R71593, AA278573, AA078248, A1798234, R12683, AL078602, AC001556, AP000499, AC003665, A1026898, AL031428, AF008243, AC005081, AC005015, AC004167, AC008015, AP000160, AP000018, AC003950, AC004104, AC004787, Z54246, Z95331, AF001549, AL139054, AC005581, AL049745, AC001228, AP000555, AC007242, AC004990, AL133241, Z93244, AC002430, AP000553, AC005089, AL020997, AC007384, Z49862, AC007666, AC007277, AC000052, AC004019, AL132777, AL050317, AL022316, AC005513, AC005545, AL008716, AL024509, I182828, AC004876, AC004032, AC004143, AL031779, AC005409, AC008372, AC007011, Z68162, AC003966, AC004738, AC005670, AC004106, AC004967, AC004590, AP000556, AP000557, AB017335, AC004914, AC002301, AC004878, AL031277, AC018633, AC005781, Z84466, AC005666, AL031680, AL049636, AC000353, AC006111, L34079, AC000404, AC004084, AP000167, AP000013, AP000155, AL050318, AC005837, AL023807, AC005562, AC008116, A1006216, AC005257, AP000171, AP000056, AP000124, AC004865, AP000330, AC004638, AC005325, AC007773, U91321, AC004752, AC005049, AC006344, Z98941, AC004884, AL035413, AL109865, AF024533, AC002511, AC002996, AC005088, AC004985, AC010205, AC007376, AJ011930, AC006241, Z93784, AC003077, AP000067, AC005231, AL009181, AC005482, AC005391, AC004777, AC005796, AF051976, AL117375, AL050327, AC004453, AC009320, AL008639, Z85987, AC007558, AL049709, AC005086, AP000432, AC006531, AC007546, AL049553, AC006536, AC004841, AL080317, AC007390, AC005914, AL031848, AC020663, and AF001551.
HEIAH70	2070	757174	1 - 330	15 - 344	
HEIAL53	2071	466308	1 - 420	15 - 434	
HEIAO01	2072	916438	1 - 290	15 - 304	AC006241, U47024, AL035400, and Z97053
HEIAO14	2073	851197	1 - 398	15 - 412	AL445914, H81732, A1096738, AA230155, A1963183, A1813783, A1358542, AA501781, AA746939, A1380617, AW008161, AA837000, AA654874, AL038842, AA776651, AA745096,

					A1921348, A1683131, T98915, AW023515, A1345497, A1690497, H73550, AL041458, A1624421, A1459943, AP001053, AC007382, AC006455, AC004817, AC005746, U07562, U85195, AC002563, AE000658, AC005578, AC004167, AL078595, U91629, AC003037, AC010170, AL022163, Z86064, AC005355, AP000330, AC004620, Z69721, AC004854, AL031666, AC005391, AC005379, AL049692, AL035604, Z92845, AC002470, AC003108, AL109758, AL049674, AC005088, Z54146, AC002395, AC007199, AC005529, AC005412, AC006125, AC007308, AC005596, AC007110, AC004560, AC004887, AL034417, AP000699, A1022153, AL023913, AC004644, AC005913, U65896, AL035420, AC007151, AC004813, AC005393, AC004139, AL021154, AC003963, Z83845, AL096701, AC004132, AC005049, Z93017, AC006111, AC004492, AC003026, Z98050, AP000288, Z93023, AF102137, AF060568, Y10129, Z93244, AF030453, AC007002, AL133245, AL049811, AC004067, AF196779, AC006057, AC005037, AC005162, AL035455, AC006262, AL031846, AL031664, AL031286, AL021707, AC004125, AC006538, AL031311, U91321, AC005832, AC000039, AC002117, AC002302, AL096801, AC003109, AL135746, Z97053, AC005383, AP000283, AC007388, AC005387, AP000284, AC005070, AL031432, AC008033, and AC008015
HEIAO48	2074	917281	1 - 366	15 - 380	AA353129, AC002310, AL031295, and AL009174.
HEIAO51	2075	725649	1 - 210	15 - 224	
HEIAO7	2076	953574	1 - 348	15 - 362	AL023096
HEIAT36	2077	576598	1 - 497	15 - 511	AW293633, and D87470.
HEIAT68	2078	753000	1 - 211	15 - 225	AL010108, AW130937, AA829185, AW197946, AC004540, Z98751, and AC009498.
HEIAV20	2079	523766	1 - 346	15 - 360	AL633518
HEICC82	2080	781171	1 - 371	15 - 385	AI910620, AC005520, AL031432, AC004876, AC008124, AC005871, AC005822, Z77249, AC004985, AL109758, AC000353, AC004084, AC002378, and AC006111.
HEOAB19	2081	939448	1 - 308	15 - 322	AW238796, A1446252, W47453, and AB011164.
HEOAB29	2082	690762	1 - 487	15 - 501	
HEOMC23	2083	850094	1 - 391	15 - 405	AW118893, AA448473, AL376031, AL911852, N51619, AA993690, A1818630, T15650, A1014894, AA452607, AA432010, A1968348, and R43403.
HEOME43	2084	967292	1 - 1957	15 - 1971	AL043294, AL045350, A1190043, A1553075, AL043295, AA837456, A1678979, AA610597, AW118951, AA916395, A1022758, A1809435, R46582, A1688011, R82289, A1909854, AA426089, A1540672, R21690, AA634501, A1286300, T96008, AA477176, A1589160, A1024524, A1866060, A1394276, and AW299557.
HEOMF61	2085	573059	1 - 431	15 - 445	
HEOMG01	2086	916672	1 - 490	15 - 504	AL035091.
HEOMG04	2087	922824	1 - 67	15 - 81	AC004884
HEOMG16	2088	933069	1 - 464	15 - 478	AC004997, and AC005585.
HEOMG25	2089	678190	1 - 695	15 - 709	A1546993.

HEOMG32	2090	699343	1 - 410	15 - 424	AC005247.
HEOMG348	2091	963338	1 - 470	15 - 484	AW170594, A1632286, AA319071, AF000594, AF129756, and AF109905.
HEOMG78	2092	920911	1 - 831	15 - 845	AA206565, R98750, and R71112
HEOMH04	2093	854342	1 - 1294	15 - 1308	AA878325, A1467795, H60658, A1142916, H59844, and R48574.
HEOMH31	2094	951834	1 - 589	15 - 603	AE011169.
HEOMH77	2095	721342	1 - 401	15 - 415	AA749137
HEOMH89	2096	787109	1 - 358	15 - 372	A1768609, AA350845, A1140661, AW207100, AW382915, R85713, A1880236, H38087, A1984926, A1828532, and A1245621.
HEOMK63	2097	918374	1 - 480	15 - 494	AB029488, and AC002536
HEOML13	2098	893874	1 - 340	15 - 354	AC002425, and AC002544
HEOML73	2099	724043	1 - 405	15 - 419	
HEOMM10	2100	964736	1 - 364	15 - 378	
HEOMN02	2101	913819	1 - 548	15 - 562	
HEOMO43	2102	855659	1 - 412	15 - 426	
HEOMQ57	2103	795128	1 - 472	15 - 486	
HEOMP31	2104	698087	1 - 364	15 - 378	H64717, and H65208
HEOMF73	2105	750609	1 - 407	15 - 421	AL008628.
HEOMQ17	2106	851049	1 - 630	15 - 644	AA523718, AA565660, AL042630, H55927, AW117723, AW117704, A1287787, H74201, AA528557, H626115, A1914558, AA206036, AA348884, A1473501, AC006566, AC005837, AC003663, AC007016, AC008372, AC004193, AB023057, AP000520, AC007390, AC007189, A1239321, AL034350, AC002487, AC005668, AC006992, AC004653, AC005838, AC004079, AC005915, AF055066, AF054594, AF035666, AC007652, AP000008, Z79028, AC005823, AC004134, AL049697, AC005821, AC004531, and Z82198.
HEOMQ25	2107	965882	1 - 560	15 - 574	AL035522, AL137100, AC005089, AC005899, AC004031, AL080243, AC007688, AC007707, Z82178, AC004686, AC005488, AC022517, AC006581, AL031662, AC005072, AC005529, U91323, AC004963, AL009181, AC002425, AL031659, AC004878, AC005722, AC004531, AC003101, Z84366, AC005015, AC004616, AC004966, AC005800, AF006752, Z84487, AC005996, AC002300, and AC005479.
HEOMQ80	2108	835599	1 - 431	15 - 445	
HEOMR13	2109	657317	1 - 657	15 - 671	AA136577, A1806102, A1086830, AW080440, AW130093, AA129563, AW402817, AW025074, AA101113, AA502991, AW148507, AA630672, AA837087, AW403644, AA127426, AA483108, AA809546, AW177794, AA858372, AW177801, T77680, A1627614, A1611960, A1583255, AW328000, N23504, A1524360, AW128884, AW128900, AA634837, AA654661, T06917, AA455483, A1537458, H68017, N58329, AA633762, A1002744, AL037052, AA326139, AA552955, AA402129, H25921, AA331301, A1907530, A1086646, AA487872, AA845659, AA380354, A1656774, AL119600, AA773463, AA847095, AW250026, AA551181, AA629872, AA380354, A1656774, AL119600, AA773463, AA847095, AW250026, AA551181, AA629872,

HEOMR57	2110	575739	1 - 298	15 - 312	AA092571, AW081303, H82185, AA345064, AA663512, AL046402, AA769429, AL045954, AA070345, AA828637, AA493136, AL638635, N71685, AA847096, AL798493, AA370455, H12383, AA807583, T47084, AW270258, H93097, AW168520, AL009182, AC007461, AC004963, AL034401, AC004655, AC005191, AL031033, AC005602, Z82214, U15177, Z98036, U81031, AC000028, AC002070, AL049778, AL122021, AC007381, AC005796, AC006323, AC009044, AC006057, AL049540, AF165142, Z93241, AL080285, AL121877, AC002527, AL008719, AC006312, AC004497, AC002106, AC004036, AC005207, AC005949, AC006125, AC005626, AC005955, AC005756, AP000096, AL035701, AP000240, AF069291, AF015262, A1229043, Z83844, AC000029, Z83822, AL050338, Z98752, AF200465, AC007057, AL049872, AR036572, U91328, AL021397, AC002073, AC007226, AL035089, AC005730, AP000362, AL031297, AC004000, AL021154, L78810, AL121782, AC005377, AL021546, AC006552, AC005214, AC006365, AL133353, AC005011, AL022721, AC004612, Z69719, AC007774, AL049576, AC004548, AL035460, AL031667, AC004098, AP000967, AL049569, AC003101, AL031186, Z69917, Z82976, AL035681, AF017115, AL033376, AC005245, AC005366, AP000563, AL021330, AC006039, AP000246, AP000133, AP000208, AP000130, AL049539, Z86061, AC004525, Z94721, Z84487, AC005726, AC005529, AC004966, Z69925, AC002288, AC007205, AL008637, AL031597, AC002299, M63796, AC005924, AL030995, AL023553, AL078639, AC007227, AC006273, Z81364, AC006958, Z98744, AC005476, AL049861, AF064858, AC006165, AC000070, AF049895, AL033527, U91321, AF002991, AC004152, AC007191, AC003109, AC004522, AL022158, Z98946, AC010170, AC009330, AC005081, AL031311, AL133163, AC006515, AC004531, AC005682, AC004685, U71218, Z81000, AC006930, AC005578, AC005838, AL121591, AC004707, Z97056, AL110502, AC006487, AC004999, AC006013, AC006950, AC005952, AP000255, AC004814, AP000213, AL096763, AC004070, AP000135, AP000031, U91326, AL022318, AC006313, AR023051, AC004644, AP000251, AP000030, AP000134, AP000122, AC004542, AL132642, M87914, AL008723, AC005500, AC004821, AL031985, AF135025, AF084941, AF052685, and D86992.
HEOMR92	2111	963130	1 - 397	15 - 411	AF150377.
HEOMR96	2112	855652	1 - 646	15 - 660	
HEOMS08	2113	959581	1 - 193	15 - 207	
HEOMS65	2114	969184	1 - 474	15 - 488	AA355836.
HEOMS85	2115	662928	1 - 400	15 - 414	AC003695, and AC002091.
HEOMS92	2116	735720	1 - 341	15 - 355	AL377718, AA810404, AA810193, A1919569, and AA732716
HEOMT38	2117	850980	1 - 433	15 - 447	AA281379, and AA805453.
HEOMT79	2118	936687	1 - 502	15 - 516	T87253, U73628, and AC002554.
HEOMU07	2119	953475	1 - 244	15 - 258	AC012085.
HEOMU23	2120	675971	1 - 374	15 - 388	R25873, AA730123, A1979259, A1982610, A1985694, AW130285, AL022067, and U08185.

HEOMU79	2121	965900	1 - 543	15 - 557	AL048427, AL119511, AW151974, A1434242, A1538850, A1538885, A1872423, A1690472, A1445620, AW058275, A1866469, A1500714, A1859991, A1860003, A1432644, A1440260, A1537677, A1494201, A1804505, A1500659, A1815239, A1866465, A1815232, A1801325, A1866691, A1500523, A1887775, A1582932, A1923989, A1284517, A1590043, A1500706, A1445237, A1491776, A1926593, A1289791, AW151138, A1889189, A1521560, A1500662, A1285417, A1539800, AW172723, A1582912, A1284509, A1889168, A1440263, A1927233, A1866573, A1633493, A1434256, A1805769, A1888661, A1952433, A1284513, A1888118, A1285439, A1436429, A1889147, A1623736, A1355779, A1581033, A1371228, A1491710, A1440252, A1431307, A1282249, A1440238, A1567971, A1866786, A1610557, A1431316, A1242736, A1539260, A1826574, A1887499, A1539781, A1431238, AW081122, A1702065, A1539707, A1885949, AW089557, A1559957, A1285419, A1521571, A14669775, A1866581, AW074057, A1815150, A1567953, A1446495, AW151979, A1867068, A1225248, A1558271, AW151132, A1698352, AW022636, A1890907, A1225000, A1371229, A1431323, AA477608, AL042365, AW169213, A1538881, AW079432, A1923061, A1687614, AW194509, AL047422, A1539771, A1891102, A1879377, AL047398, A1866458, A1469764, A1371251, A1866510, A1623302, AW081133, A1538764, A1866461, AW151136, A1923046, AL043152, A1554485, A1887785, AW130168, A1043168, A1049859, AL041862, AA651819, A1561170, AL048403, A1690946, A1889191, A1648567, AL042686, AL046356, A1433157, A1610426, A1554821, AL045500, A1589947, AW129310, A1819663, AA729782, AL119457, A1312428, A1540446, A1564459, A1273179, A1934000, A1368816, A1371243, AW058279, A1434240, AL042533, A1702406, AL039390, AW080700, AA641818, A1671642, A1860865, AA878808, A1961589, AA738104, A1582910, A1687587, A1798359, A1500683, AW079158, A1356470, A1493559, AL042655, AA939199, A1355008, A1521566, A1499104, A1274759, AL036990, A1630898, AL042416, A1539863, A1366909, A1433976, AL045466, AL042488, A1924051, AL043089, AW161202, A1049850, A1366910, A1469516, AW071349, A1349245, A1561177, AW020419, AW082113, AL030459, AL047611, AL040207, A1582926, A1049851, A1491904, AL040844, AL043321, A1365256, A1565932, AW080565, AA070889, AA575874, A1499463, AA648480, AL045626, AW191003, A1355126, A1537187, A1564500, AL045166, AW197139, A1354981, A1240602, A1610362, AL042544, A1440239, A1567961, A1521596, A1436438, A1828572, A1275175, A1521589, A1310500, A1537273, A1537191, AW151970, A1371265, A1436456, AL046681, AL039287, AW094595, A1887765, A1963846, A1049856, AC015853, AF055917, AR034821, AL080129, AF100781, AL050092, A58523, A58523, U30290, E12580, E12580, A122049, AL117460, A45787, A133049, A133084, A133070, E12579, AR011880, I48978, A133053, A137558, AL049423, AF118090, AL133015, AL133608, AL110159, A137656, AL035458, U49434, X67813, M79462, D44497, AL049314, AL122101, AL096720, A08910, AL050024, A08909, AF084644, AF084645, AF114168, Y11254, U77594, AL122100, A08908, U68387,
HEOMV11	2122	847274	1 - 282	15 - 296	

					AF008439, Y11587, AR068466, AF067728, E13998, E06743, Y10655, AL117438, X95876, Z82022, AL049452, X72889, X82434, AB022159, AL137463, AL133629, AR038859, I79592, D00174, Z37987, AL050138, Y00093, AL133665, S77771, AF113694, I46765, AF183393, L13297, A08912, I89947, AF002985, AF161699, I48979, AF026008, AF137367, U35846, AF043642, AC004213, AL049465, U92992, AF113677, L19437, L10353, A07588, AF097996, I17767, E15324, X54971, AF038440, AL117435, AL133072, AF077349, AR020905, A1001838, X70685, X72624, M30514, M85165, AL133607, A93350, AF017152, AL110221, AL050108, AF061981, AL080126, AL049466, X98834, L24896, X72387, S61953, S75997, AL137429, U113676, AF118558, I09499, U57352, AR005011, Y14634, AL137480, I03321, AF162270, AC007114, X81464, AF113690, X76228, I28326, AF118064, X87582, Z72491, AL137648, AF000301, AL133010, AL137548, AF151109, Z97214, AF081195, Z82206, X56530, E03348, Y10823, AL137640, AL137523, U58996, AL137529, AL133568, AL080148, AF106862, U72620, E12747, AF074604, AF215669, AL137560, AL122111, L30117, AF026124, AL050116, U66274, A12297, AL137292, AF000145, AL137267, Z49258, AF095901, Z93784, A32826, A30330, A32827, A30331, AL080060, Y11435, AF012536, AF076464, AF017437, AF119336, Y10936, AF081366, AF093119, AF069506, A44314, AL049464, S69385, AL133655, AL117585, A07647, X93495, AF108357, X53587, A08913, AL008706, I90734, A70386, U75932, AF078844, S63521, AF118094, AL133558, A41579, X60786, AL137478, A77033, A77035, A08916, AF073993, AL137271, AR012379, AL133016, E00617, E00717, E00778, AF016271, AF119358, AL137521, AF040723, A1012755, AL137479, AF081197, AL137476, AL122123, AL022170, A15345, AF067790, AL122110, AL137283, AL080159, I33392, and AL133081.
HEOMV16	2123	958211	I - 452	15 - 466	F11697, AA194124, AC005999, AC006547, AC005663, AC005664, and AC005160.
HEOMV54	2124	S66586	I - 518	15 - 532	AI1819924, AI1139693, AA658096, AW340876, AW196652, AW388936, AW117675, and AI146863.
HEOMV81	2125	915093	I - 491	15 - 505	Z85996.
HEOMV26	2126	418125	I - 386	15 - 400	
HEOMV83	2127	659808	I - 341	15 - 355	
HEOMX04	2128	615337	I - 287	15 - 301	AI309389, N49368, AI433008, AI344822, AI611016, AA618452, AI271126, AL137998, R69717, AI744826, AW269117, AW385452, AI963720, AW303002, AA018283, AA490183, AA780468, AA349927, AL039958, T41247, AA661921, AI307486, W74144, AI345157, AI700109, AA483929, AL138455, AI249573, AI732151, AA279421, AW264934, AI694130, AA724922, AA747070, AL041619, AL046409, AW069769, AA486131, AI754336, AA533333, AI306324, F00107, AA780515, AW003107, AL138396, AI925579, AA482711, AI610603, AI696962, AI369580, W77807, W72692, AA838190, AW088846, AA654781, AA480792, AI791013, E05324, AI792133, AI821714, AA206721, AA493136, AI610840, AA553406, AA218835, N47224, AW190615, AA478355, AI431303, AI499588, AA493904, AA774059, AI393931, AI1004704, AA834707, AI270117, AW088616, AA630672, AL045808, AL046156, AW023990, AW268757.

AA613591, A1088768, A1285753, AW268918, AW303150, AA584195, AL042753, A1312955, AA601253, A1597820, A1953275, AW163293, A1271028, AA579179, A1792261, A1204959, AW328488, AA493975, A1524037, AL037850, W45625, AW302903, AA572798, A1907711, AW275510, A1217937, A1633025, A119713, A1471887, AA658406, AA584692, H71429, AA290624, AW167881, AF034184, AA455670, A1823688, A1027459, T06822, H23653, AW148507, A1611462, A1084294, A1583283, AA112692, AA112672, AA831787, AA084337, H186363, AA640410, AA640430, AL037683, AW161978, AA584201, AW104030, A1031073, A1638561, AA101689, AA584805, A1284640, A1094787, AW102846, A1345827, A1370074, A1754253, AL043289, T59244, AW235497, AW263415, A1167356, AA508359, A1687343, AL037554, AL045813, AL04940, A1349817, AL046746, A1046266, A1924872, AW268954, AL120343, AC004814, AL109758, AC007227, AF199339, AC006972, AF084195, Z99943, AC004881, AC006442, AC004687, AC005363, AP000507, AC004028, AL109384, I184394, Z98051, AL009179, AC006101, AF165176, AC006019, AC005684, AL031848, AC007151, AC002507, AC004650, AC005728, AC002452, Z72001, AC005839, AC004916, AL078463, AC004765, AC003070, X06123, X61109, AC006537, I162293, AC005057, U80017, AC005914, AL031228, AL049829, AC008038, AL109839, AC004979, AF165175, AC007200, AC004987, AL079340, AC004982, AC006305, AC009223, AL109657, AF005291, AL078589, X69951, AP000204, AP000126, Z95124, AC004254, AL049761, AC004070, AL096862, AC004849, AC002300, U91318, AL133445, AC006430, Z95114, AC005046, AF015151, AF141309, AC004030, AC005217, AC006323, AC005049, AC006965, AF126403, AC004492, AC002429, AC006356, AF057280, I03818, X55929, AB014078, AP000244, D87008, AC004761, AC005525, AC005790, AC005203, AC005604, AC007229, D88268, AC006139, AC005335, AL023579, AC004756, AC004775, AL022477, AC005031, AL049562, AL117442, AC002383, AP000503, AP000514, AL035694, AC012627, AL049544, AL031293, AL021155, AL035407, AC006205, AC004941, U91319, AC005378, AC003003, Z84487, AL023581, AC007671, AC009944, AC008014, AL023807, AC007546, AC007057, AL049832, AC007655, AL022323, AC006459, AC006111, AC007537, AC007363, AC005859, AF002223, AR036572, U91328, AC004019, X54180, AF030880, Z83836, X03272, AC005575, Z84485, AC005250, AC002467, AP000158, AC005231, AL031274, AC004601, AL020997, AL031664, AC006075, AC005906, AC004470, AC005406, AP000014, AF038667, AL021397, AP000339, AC004935, AP000217, AL031286, AC004222, AC003075, AC005295, AC004861, AC003074, Z93931, AL022316, AC007395, AC007011, AC018359, AL049872, X55933, Z92845, AL035361, AL022302, AC005182, AL033533, AC004913, AL034451, AL033518, AC003982, AC006251, AC003957, AC005177, AL078603, AC006989, AC006226, AC008126, AC002457, AC006241, Z98941, U95090, AC003030, AB026584, U63630, AC005603, AC004232, AL031300, AP001043, AL035634, AC003691, AP000282, AC007536, AC012599, AP000108, AP000040, AL034373, AC000159, AC004857, AP000365, AP000467, AC007304, AC005389, AC004773, AP000548,

					AC007237, AC001231, AC005968, AL109753, AL031311, AL035552, AC004057, AP000473, AL034549, AL009172, AL117258, AC009743, AP000555, AB017654, AC006376, AC002449, AC005920, AC007637, AC006377, AC007514, AC005084, AC006160, AC005939, AC005815, AL133163, AC007919, AC006552, AC009399, AC004531, AC007073, AC009891, and AC005701.
HEOMX61	2129	958233	1 - 535		15 - 549
HEOMX65	2130	575919	1 - 451		15 - 465
HEOMX92	2131	919200	1 - 422		15 - 436
					Z98950.
					N63479, T66032, AA196156, T47172, AA305334, AL124664, AL537310, AA401240, AA761876, AA769559, AA404287, AL925653, AA314294, AA581238, AA312605, AA032022, AA031911, AA425438, AA468322, F00487, AA420494, AA324750, U95740, AC004770, AL049759, AL033524, AC006237, AL035458, AF086934, AC005572, AC005772, AL109623, AC006211, AC004938, AP000354, AC006996, AC002492, AP000964, Z98946, AL110122, AC002091, AC004084, AL022165, AL008582, AL023581, AC004888, AC006511, AC006057, AC006512, AL049829, Z47066, and AC007381.
HEONC06	2132	855649	1 - 643		15 - 657
HEOND75	2133	918209	1 - 314		15 - 328
HEONJ79	2134	506226	1 - 333		15 - 347
HEONK15	2135	660365	1 - 430		15 - 444
HEONM30	2136	692726	1 - 311		15 - 325
HEONM69	2137	855638	1 - 507		15 - 521
HEONN28	2138	745144	1 - 454		15 - 468
					H06248, H13011, M89651, and AF004222.
					AC007032
					AC000393, and AF081946.
					AL041375, AL053477, AW274078, AL431513, AL376239, AW089016, AA225890, AA503298, AA604604, AW162047, AW162303, AA557945, AL014843, AA947375, AW270258, AW078909, AW193493, AW302315, AA609834, AA947265, AW341955, AW089950, AA657374, AL434910, AA478602, AW190484, AL865196, AA489390, AL241793, AA669234, AL610737, AL039187, AW243793, AA483606, AL572680, AL371208, AA299589, AL292317, AL565126, AA405726, AA570740, AA652834, AA492105, AA805848, T74524, AA287570, AL473671, AA720732, AW068908, AW068007, AA255853, AA568294, AL654738, AA469230, AA487475, AA608520, AL039089, AL049869, AC002316, M87914, AC007371, AC004491, AC007637, S42653, AC005089, AC006597, AC002996, AC006509, AP000689, AC007536, AC007637, S42653, Z86090, AL080243, AC005632, AL049776, AF196969, AC006948, AC004890, AP000704, AL096791, AL031848, AL049636, AL022326, AC007358, AP000688, AC005037, AC002543, AL031005, AC003098, AL035587, AF047825, AL096712, AL133396, AC004455, AL121653, AC002038, AC000087, AC005696, AD000092, AL049830, AL031776, AL024498, L24093, AC004796, AL022322, AC005837, AL049570, AC005800, AC009510, L07561, AL096701, AC005913, AL117258, AF205588, AL035403, AF001549, D87675, AP000252, AP000065, AP000556, AL034418, AL035088, AC003663, Z83844, AC006064, AC002312, AL023807, AL049692, AL133500, AC005081, AC005365, Z98200, AC006511, AP000134, AP000212,

HEONQ81	2139	792074	1 - 283	15 - 297	AC000353, AF048729, AC004887, AL009182, AE000658, AL121603, AP000090, AC005914, AC005871, AC005900, Z95152, AC002544, AC006312, AL031311, Z49866, AP000692, AC006211, AC004492, AC005736, AC002546, AC004859, AC005924, AL117337, AC005209, AL035685, AC004973, AC004953, Z69705, AL080317, AC002350, U85195, AL031985, AL034555, AC004024, AC007546, AC005476, AC004253, AP000008, AC006115, AC004815, AC002404, AC007327, AL121934, AL121658, AC004858, AC004754, AC004983, AC004453, AC005049, AC007421, AC004134, AP000553, AC012184, AL031681, AL135744, AC002381, AC005015, AC005568, AL133245, L78833, AC005669, U91327, AL133246, AL021394, AL050343, AL049709, AC002301, AC000134, AC002365, AL021578, AL049795, D86995, AC005338, AC005409, AC008372, AC002390, AC004686, AC005899, AL049646, AL109952, AL049588, AL132987, AL022721, AC003070, AF207550, AC003104, AC006251, AC007216, AC004821, AC005277, AC006241, AC005274, AP000128, AP000206, AC004797, AC005538, AC006538, Z98884, AL035422, Z83838, AC006011, AC005796, AC006117, AC002310, AC009247, U95742, AC007199, AC004910, AC005808, AC005754, AL035458, AC005746, AC009516, AC002126, AC002091, AC006571, AC005488, AC007151, AC005775, AC007114, AC020663, AC007221, AL031597, AL035414, AC005856, Z99943, AC002551, U91323, AC007382, AC003684, AL049569, AP000355, AC005527, Z69042, AC003109, AP000555, AC005513, AC004841, AC004033, AL022343, AP000696, AC005291, Z97181, Z49258, AC008040, AC004019, AP000114, AP000046, AC005531, AC004466, AC002463, AC006501, Z49154, AC005255, AP000557, Z98050, AC005755, AF134726, AC005412, AC003110, AC004884, AC004659, and Z95115.
HEONQ91	2140	792377	1 - 368	15 - 382	AW392300.
HEONQ08	2141	959556	1 - 699	15 - 713	AI378653, and H97239
HEONQ19	2142	930705	1 - 897	15 - 911	AA532915.
HEONQ58	2143	965881	1 - 506	15 - 520	AI625739, AW272001, AI435829, AA147072, AI609268, N91272, AA147105, AA834526, W27700, AA126003, AA602530, AA398168, AW294288, AW004619, AI202250, AL119565, AB007884, and AI250425
HEONQ65	2144	967588	1 - 340	15 - 354	AA683299, and AC005075.
HEONQ69	2145	556544	1 - 355	15 - 369	
HEONTU26	2146	577429	1 - 491	15 - 505	AA845825, AA503018, AI862790, AI240919, AI246061, AI792537, AI270853, AI252826, AI254046, AI251643, AI435754, AW086343, AI224728, AW301997, N29930, AI271005, AI249565, AI254826, AW271081, AI224422, AI251312, AI252060, AW302086, AI254783, AI307025, AI472900, AI254056, AI254683, AI223591, AI252493, AI284764, AI224311, AW086227, AI435696, AI053574, AW167330, AI362442, AI682310, AI884861, AA857812, AA862014, AA340153, AI864500, AA468494, AI255060, AW271137, AI252996, AW302016, AA678616, AA662905, AI683019, AI289050, AA076473, AA728911, AI085095, AI284092,

AA364150, A1499941, A1185394, A1472782, A1419337, A1361090, AA633565, AA084950, AA935380, T34558, AL119563, AA484892, A1421950, AW026305, A1054090, A1690335, AA486352, AW054936, AA468956, A1249853, A1284543, A1254770, A1798242, A1251944, A1251034, A1251284, N76555, A1250552, A1279417, AA665304, A1570805, AW021007, A1049534, AA741301, AL138065, AA579399, AW192518, AW078821, H39839, AW408767, AW390284, A1347665, AA64223, AA599749, AA581498, A1472736, AW265688, A1355246, AW328370, AA224525, AW440568, H86579, AA678032, H25626, F09355, AW081610, AA345594, N67313, AW342143, AA757426, AA610713, A1803741, H93152, A1889995, AA773881, A1538236, A126814, A1671077, A1251241, A1678476, N75708, N25079, AA018923, A1065043, AA012829, AA24181, A1223626, AA197019, AA610775, A1591134, AA558366, AW019964, AW079667, AW303098, R35259, A1890753, A1343669, A1309121, W44359, F17537, T08386, A1863246, AA618240, AA678622, AA610255, N70449, A1901718, H10454, A1860535, AA748071, A1285493, AA916430, A1312090, AL044488, A1312784, A1333906, AL133902, A1866996, AA426451, A1889426, A1520967, A1760700, AA572083, A1376197, A1567941, AA019542, A1679759, A1205783, A1523865, A1114653, AA714955, AA053463, A1889579, A1524957, AA632988, AA295893, AW087276, AA501441, A1559282, A1270442, AA083681, AC006010, AC005274, AC005004, AC007738, Z84466, AC004933, AL034549, U80017, AC005539, AF124730, AL031387, AC004111, AB014077, AC004209, AP000513, AL022578, Z92540, AC009399, AC002432, AF001549, AC004787, AC004531, AC007899, AC007462, Z84469, AP000281, AC002066, AC003695, AP000260, AC005031, A1133269, AL049611, AC005886, AL031651, AP000039, AP000099, AC005377, AP000036, AC005696, AC006501, AC004000, AP000046, AP000114, Z73496, Z96074, AF017104, AC002480, AL031177, AC005728, AL049591, AL022162, AC002531, AC002377, AL133246, Z94056, AF095901, AL031589, AL022394, AL024508, AC004999, AC010206, AF067844, AL132987, AC005740, AC006080, Z98946, AL035530, AC002538, AF217403, AL049650, AL022337, AC005071, AC002559, AP000688, AL035696, AC007253, AC005822, AL031230, AL008729, AL078593, AC011625, AL049176, AL035652, AC009330, AL034553, AC001231, AC005969, AL050350, AC005344, AC008119, AP000113, AP000045, AL049779, AC007546, AL035400, AC009542, AC008498, AL078581, AC004811, AC005295, AC006459, AC005323, AC004253, AC006367, AC004808, AC006443, AC007228, AL078584, D87009, AL024474, AC007016, AC002352, AC006552, U91325, AC006000, AC005609, Z99570, AL049569, AC005099, AC007298, AC004694, Z98751, Z68273, AC004552, AC007386, AP000506, AC005058, AC004950, AC004584, AF191071, AL033381, AC004228, AC008928, AL117356, AF123462, AB000882, AC004831, AL109865, AC007240, AC006013, AC003003, AF003528, AL035089, AC005826, Z97054, AL049760, AC006379, AL022165, AC005725, AC002070, AC006450, AF031076, AC004072, AL133321, AF031075, AL117258, U96629, AF139813, AL135879, AL121790, AF064858, U91321, Z98884, AL031595, AC005304, AC005017,					
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HEONU75	2147	851054	1 - 215		15 - 229
HEONV59	2148	949152	1 - 376		15 - 390
HEONW15	2149	575812	1 - 379		15 - 393
HEONX19	2150	668740	1 - 363		15 - 377
HEONX49	2151	485897	1 - 480		15 - 494
HEO0B36	2152	830013	1 - 363		15 - 377
HEOOD03	2153	923505	1 - 502		15 - 516
					AA404360, AW148964, AL290157, AA809125, AL433952, AA569565, T94858, AA601376, AL224583, AA428270, AA255832, AA855570, AW006124, AA831350, AA811673, AL133355, AA927531, AL036896, AA484699, AA018488, AA174108, AL457605, AA669458, AW419201, N76712, AL889236, AA491941, AL254463, N71264, AL252005, AA533977, AW403177, AA493464, AL097211, AL254367, AW088928, AA666172, T73227, AL044758, AA533066, AA225645, AA947997, AA533660, AL869406, AA493546, AA516061, AL572680, AL744890, AA130350, AL926104, AL125192, AL044966, AA199578, T49381, AW379889, R07303, AL271873, AL912307, AL610814, AL079508, AA359725, T07954, AA165504, AA484321, AA779599, AL978902, AP000563, AP000211, AP000133, AC003041, AB003151, AC005280, L78833, AC005484, AC006597, AC005182, AC004771, Z95704, AL049636, AC005099, AL022318, AL109627, AL117339, AL022320, AC005562, AC005839, AL031311, AC006511, U91321, AC005632, AC004150, AP000213, AF064861, AC006026, AP000135, AC003072, AC004913, AL049869, AC007546, AC000052, AP000031, AL031846, Z84476, AC007030, Z98949, AC0002310, AL096701, AF165926, AC006211, AL031282, AF111169, U91327, Z84474, AC004542, AL035696, AC004876, Z86090, Z83844, AC004967, AC002477, AC007421, Z83840, AL035587, AL034343, AC020663, AC000353, AC005209, AC005037, Z93241, AC007666, Z97054, AL109623, AC004983, AC006166, AL031662, AL078639, AC007226, AL031730, AC009516, AC005971, AC008372, AC005291, AC007277, AC007686, AC005014, AC004895, AC007707, AC004019, AC005529, AF207550, AC007376, AC006120, AL096791, AC002351, AC003950, AC005049, AC007055, AC008044, AC005089, AP000354, AL139054, AC005779, AP000692, Z15025, AC004797, AC006162, AC005399, AC007364, AC003982, AC005694, Z93017, AC004882, AB023051, AP000116, AC002350, AL033392, Z98941, AC004084, U91326, AC005358, AC003688, AC007263, AC004765, AL050341, AL035413, AP000689, AC004910, Z95703, AL034402, AL117337, AC005519, AC008134, AC004890, AL078581, AC003006,

HEOD59	2154	738991	1 - 397	15 - 411	AC006960, AF118808, AF196779, AC005618, AP000114, AP000046, Z98051, AC006277, AL008725, Y18000, AC006285, AL133448, AC007204, AC004347, Z82171, AC008067, AC003030, AC002369, AL024509, AL031281, AC007919, AC003969, AL080243, AC004653, AF045555, AL034548, AP000030, Z82206, AC005531, D83253, AP000099, AL035660, AP000008, AP000512, AL034417, Z82190, AC002996, AC005730, AL008582, AC004859, AL031591, AC004878, U91323, AC006449, AL133445, AL121603, Z81369, AC005736, AC006312, AC005625, AC006509, AL121578, AL031432, AL122020, AP000036, AP000253, AL031666, AL049759, AL031427, AC003007, AC005755, AL003147, AC006581, and AC006306
HEODV40	2155	710800	1 - 357	15 - 371	
HEOPE28	2156	926837	1 - 589	15 - 603	AA286964, AL568687, AL680899, AA809497, AA746098, AA287967, AW452688, AA814524, AW130037, and AB028989
HEOPE58	2157	851009	1 - 463	15 - 477	AL078634, AP000117, AP000194, AP000313, and AP000050
HEOPE03	2158	839868	1 - 530	15 - 544	AC004954
HEOPE18	2159	918405	1 - 407	15 - 421	
HEOPE25	2160	934171	1 - 510	15 - 524	
HEOPE33	2161	969695	1 - 406	15 - 420	
HEOPE56	2162	850925	1 - 687	15 - 701	AA810065, AW205048, and AC003959
HEOPG01	2163	915047	1 - 476	15 - 490	US1192, AP000325, AP000054, AP000122, and AP000169
HEOP169	2164	883161	1 - 580	15 - 594	AL031667
HEOP173	2165	850936	1 - 597	15 - 611	
HEOP141	2166	855634	1 - 536	15 - 550	AL121760
HEOPK43	2167	930942	1 - 649	15 - 663	N91672, AC008122, AP000558, AC009516, U91318, AB020864, AP000555, AF003626, AP000501, AL049779, AP000553, and AL031984
HEOPK47	2168	966327	1 - 699	15 - 713	AC006987
HEOPK52	2169	883170	1 - 475	15 - 489	AC005913
HEOPK90	2170	850883	1 - 624	15 - 638	
HEOPN73	2171	851002	1 - 504	15 - 518	
HEOPN78	2172	918205	1 - 314	15 - 328	
HEOPN95	2173	973440	1 - 732	15 - 746	Z99396, AW392670, AW372827, AW384394, AW363220, AL119497, AL119355, AL119457, AL119319, AL119483, AL119324, U46341, AL119484, AL119391, U46349, AL119522, AL119363, U46350, AL036418, AL038837, U46351, AL119341, AL119355, AL119418, AL037051, AL036725, AA631969, AL119396, AL119496, AL036858, AL037205, U46347, AL119444, AL043029, AL042984, AL119439, AL119401, U46346, AL042614, AL039074, AL036924, AL142132, AL134525, AL134538, AL042544, AL142137, AL042965, AL042975, AL134902, AL119399, AL134536, U46345, AL043019, AL043039, AL043033,

HEOP008	2174	958184	1 - 422	15 - 436	AL042551, AL038509, AL119464, AL042450, AL043011, AL042542, AL037094, AL037085, AL037526, AL036196, AL043003, AL036268, AL037639, AL036190, AL037082, AL038520, AL036767, AL037077, AL036774, AL036998, AL038851, AL038447, AL036238, AL036733, AL036719, AL037178, AL037027, AL037615, AL036679, AL036765, AL036191, AR066494, AR060234, AR1671, AR023813, AR064707, AR054110, AB026436, and AR069079.
HEOPP30	2175	850916	1 - 418	15 - 432	R03882, R99079, AAS46981, N70425, A1271762, AAS63770, AC007225, AC004019, AC006121, AC000052, AL031427, AC007279, AP000690, U95740, U73167, U90094, AC006071, AL049569, Z77852, AP000151, AC005484, AC005014, AC008154, AC005539, AC002565, AC002314, AC003665, U80017, AC004084, AC007993, AC007731, AL008718, AC005500, AC004491, AF001550, AC005081, AC005932, AC000159, AC000134, AC005952, AC020663, AL121653, AC005535, AC005844, AL049793, AC004851, AF205588, AF196969, AP000513, AC006084, AL133244, AB023049, AC006146, AP000115, AC004820, L78833, AC005295, AC006449, AC004686, AL031846, AF196970, AC005046, Z99716, AC006111, AL031255, AF042484, AC007226, AC006487, AF045555, AC005829, AC004910, Z85996, AC005920, AC003101, AC005921, AC002059, AL008582, AC005412, AP000694, AC005049, AP000689, AL109753, AC005527, AC004900, AC004797, and AC004999.
HEOPJ06	2176	934147	1 - 637	15 - 651	AA631942, A1086196, AC005590, AC004224, AL022330, AL096678, AC004032, AC004645, and AC006237.
HEOPW04	2177	850948	1 - 721	15 - 735	AC005189.
HEOPW38	2178	926764	1 - 520	15 - 534	
HEOPW67	2179	840050	1 - 542	15 - 556	
HEOPX85	2180	855625	1 - 200	15 - 214	A1889579, A1160786, F35684, A1355246, AW019964, AA736485, AA805014, T50676, H69992, AA837771, AA256107, AA077619, H60113, AW020198, AW373604, R67701, T83057, AA668905, AW247338, F19643, T62078, AA600132, AA634242, AA487226, A1915081, AA214457, AA354324, Z92546, AP000353, Z95979, AC004882, AC005529, AP000115, AC002077, AP000086, AC006211, AC006120, AC005018, AL009182, AC005620, AL009029, AC006084, U62317, AC004820, AC007225, AC006530, AC004701, AC005881, AC004815, AL031595, AL031984, AC005519, AC005094, AC004663, Z82179, AC002988, AC005255, AL121603, AC004859, AL035405, AC005559, U47924, AC005740, AL035086, AC003692, AP000312, AP000193, AP000050, AP000117, AF001549, U52111, AL035703, AC005412, U91321, AL121658, AC004659, AL031587, Z98946, AC007388, AC006111, AC004762, AL049553, AC005031, AC000079, AL109963, AL022398, Z84487, AC000068, AL022334, AL008635, AC005532, AC006011, AC005046, AP000510, AC007057, U62293, AC005057, AF196972, AC005666, AL109827, AC007308, U80017, AC002470, AC005921, AP000688, AB026899, Z93244, AC007425, AC004216, U95743, AC005257, AF047825, AC005488, AC004675, AF207550, U89335, AL040434, Z98051, AP000221, AP000085, AL049795.

HEOPY05	2181	918438	1 - 494	15 - 508	AL030570, AC002477, AC004655, AL049823, AL031283, AF088219, AF024533, AC005534, AC005514, AC003678, AL031293, AC006346, AC003663, AC003689, AC007993, AC003071, AC007773, AC005261, AL109798, AC005082, AL049631, AC004042, Z99755, AC005089, AC005495, AC0010170, AC006347, AC004217, AL022721, AC002314, AL034553, Z98941, AC005088, AF000092, AF000500, AC004819, Z97630, AC007200, AB020861, AC007435, AL121973, AL109865, L29766, AL049872, AC005624, AF001551, AL008707, AC005206, AC005667, AC035420, AC005152, AC008101, AC004999, AC006254, AL035422, AL008628, AC005510, AC008079, AL133246, AC005618, AC005696, AF217403, AF037338, AC007292, AF000691, AL049576, AC003665, AC003002, AC002316, AF000113, AF000045, AC004910, AC000059, Z95116, AL031230, Z82214, AC004943, AC005611, AC006581, AC007685, AC007066, AL049539, AC005070, AP000329, AL031781, Z93930, AP000123, AP000170, AP000055, AC000134, AP000501, AL031577, AF053356, AL135744, U91323, AC004033, AC002091, AC005034, AC004000, L78810, AC004049, AL109616, AC004851, Z99916, AL031677, AL031846, AL022326, AC005015, AL034429, AC006449, AL049843, AF000553, AC002350, X06292, A1131757, AC003004, AC004644, AC005179, AP000255, and AC004752.
HEOPZ02	2182	918407	1 - 493	15 - 507	AW392670, AW363220, AL042614, AW372827, AW384394, AL119444, Z99396, AL119443, AL119341, AL119319, AL119457, AL119497, AL119324, AL119483, AL037205, U46351, AL119355, U46349, AL119484, AL119363, AL119391, AL119418, AL119335, U46350, U46347, AL134524, AL134902, AL042978, AL119396, U46346, AL119522, U46341, AL042965, AL042975, AL042984, AL119401, AL134525, AL119496, AL119439, AL142132, AL043019, AL134920, AL119399, AL042433, U46345, AL042896, AL042450, AL043029, AL134536, AL134538, AL042544, AL042970, AL142131, AL042542, AL042551, AL119464, AL043003, AL119488, Z99572, AR066494, A81671, AR060234, AR054110, AB026436, AR069079, and AR043113.
HEOPZ05	2183	928257	1 - 166	15 - 180	AW090604, and L01057.
HEOPZ11	2184	965970	1 - 462	15 - 476	
HEOPZ29	2185	878503	1 - 381	15 - 395	AA347231.
HEOQB30	2186	909899	1 - 658	15 - 672	AA280922, AA090210, A1264291, AW148672, AA769639, and D29642.
HEOQC10	2187	963398	1 - 386	15 - 400	AA83771, AA573000, AA768179, AA635433, AA993165, AA664248, D51877, AA385775, AA302660, AW419389, AA515172, AA527109, AA568314, T07285, A1521042, T17135, AA078137, A1246061, AA078184, AA714073, H85587, AA610374, AA668148, A1244985, AA743968, R61195, AA720582, A1743129, AA832124, AA371410, H27788, AW089950, AA662629, R87135, A1572680, A1223968, AA348271, AW105463, AL044793, AW341882, A1653783, A1761566, AA078509, AA658853, W39287, AP000115, AC004859, AL031781, AC005071, AL031133, AC005037, AC005004, AF001549, AC005722, AP000355, AL133445, AL021391, AF047825, AL031985, AC004587, AC005300, AC005193, AP000212, AP000134,

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HECQC76	2189	909032	1 - 645	15 - 659	<p> A1619994, H10577, AW148775, AA862029, AA662615, A1457313, A1733717, AA559166, A1271762, A1431513, A1633386, A1249688, AA590423, W81372, AW302670, AW408596, AA460692, T94394, R64640, F04252, AA515351, AA610255, AW028950, F30158, A1345334, AA715962, AA015948, Z98474, T51556, AL037533, A1889579, A1355246, AW020891, A1758799, F31811, AA297496, AA664126, A1190648, H40478, AA358178, AA653713, AL078474, AL109963, AL110122, AL049833, AC008101, AC008079, AP000466, AF196969, AL109865, AC006084, AC006196, AF111168, AC007201, AL1049829, A1004799, AC004820, AC004100, AC002347, AC002385, AC005837, M87912, AC008975, AC004150, AL049539, AL049696, AL050327, AL049776, AC007225, Z68129, AC004499, U52111, AL021453, AC005509, AP000022, AP000163, AC004217, AL023095, AL049563, D86992, I388270, AC004587, AC008062, AC007637, AC016025, AL008635, AB017653, AC005559, AC005581, AC006398, AC005393, AC003109, AC005018, AF019406, AL050341, AL109983, AP000689, AB003151, AC002429, AC007012, AL022334, AC006476, Z84469, AC002477, AP000299, AL035086, AF039907, AC005156, Z83844, AC005411, AL109627, AC006979, Z93244, AC008085, AC006121, AC005871, AL049569, AP000501, AC006430, AC004598, AC005193, AL031680, AC003051, AC003665, AC005859, AL117356, AC005228, AC004551, AC002070, Z49769, AC005566, AL050306, A1246003, AC006511, AC005516, AC002368, AC004913, AL008707, AB006136, AL022328, AL035681, AC005828, AF037338, AP001063, AL022313, AL035088, AL117355, AC005972, AC005747, I34294, M87889, Z82217, AC004257, AC002369, AC005912, AP000692, AC004797, Z82176, AC005707, AC004262, L47234, AC003002, AL022399, AP001053, AC002302, AC006141, AF047825, Z06074, AC004494, AC005225, AC006531, AL022721, AP000065, Z84466, AF027390, AL009183, AC002453, AL034420, AL021920, AL109653, Z85996, AC005539, AC004596, AC002059, AL021546, AC005261, Z49235, AL008637, AL035682, AL049697, AC005034, AC007786, AP000557, AL031848, AP000113, AP000045, AC004611, AC002128, AC006137, AC007279, AC009247, AP000350, AL022323, Z49236, AL022329, AL109977, AC005412, AC007676, A1131341, L31565, AL096818, AF176815, U82648, AL035090, AL035079, AP000031, AC005821, AL133353, AL050320, U10087, Y12508, AL022333, AC006537, AC002116, AC005783, AC004961, U78027, AL035422, AL031904, AL121603, AL049636, AL035405, AP000503, AC006011, AL035413, AC000075, AC000084, AC002491, AC002056, AL031730, AC002554, AC007537, AL022318, Z85994, AL079340, AC005737, AL049839, AL078603, AB018295, AC007059, AC003963, Z98885, AC005800, AL109839, AB004907, AL034451, AF129756, AC004597, AL031662, AC005015, AL022326, AL079342, AL049743, AC004703, Z77852, AC005291, AC006133, AC003048, Z97876, AL035551, AL049814, AB001523, AC005914, Z84487, AL050325, AC022517, AC004832, AC006928, AC005726, AL021391, AF134726, AC002558, AF030453, Z98752, AC002306, AC004106, AC005256, and AF038458. AA279563, and AA490433. </p>
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HEOQE04	2190	922876	1 - 480	15 - 494	AA381451.
HEOQE77	2191	850974	1 - 403	15 - 417	AA714278, AA827817, AA483603, AF032875, R44616, AL036300, A1243933, AA135806, AP04051, AL008630, AC002352, AC004893, AC002115, AC002045, AC005089, AC005756, AC005952, AL031273, AL020997, AL031311, AC005067, AP000313, AP000194, AP000050, AC011504, AF001548, AP000117, AC005488, AC004491, AF053356, AC004659, AC004834, AC002364, AL096775, AC000113, AC005551, AC005081, AC005086, AL031686, AC003666, U63313, AC004897, AL117694, AC004382, AC000082, AC004883, AC005792, AL049539, AC004905, AP000032, AC002425, AC005479, AL035088, AC002070, U91323, Z97055, AL033517, AF003529, AC005049, U96629, AC003101, AC000070, AC005620, AC002527, AF196972, AP000355, AC009288, J03764, AP00013, AP000154, AC005015, AC004653, AC002302, AC000091, AC002310, AF030453, AC005088, AC007207, AC004841, AF184614, AC002522, AC004602, AC000095, AC004528, AF024533, AL035073, AC005841, AP000008, AC005800, AL049745, AC002992, AC002312, and AC002517
HEOQG73	2192	958109	1 - 584	15 - 598	R95051, AA491864, A1745457, AC004770, AC004228, AC002470, AC005550, AL031670, AF053356, AC000092, AC005527, Z85986, AC000134, AC005529, AP000555, AP000885, AL034429, AC004530, and AL008709
HEOQG80	2193	850971	1 - 448	15 - 462	AI868365, AL132777, AL111168, AC002115, AC002381, and Z68323
HEOQH81	2194	934100	1 - 507	15 - 611	AA708108, AA504896, AA811208, AI590941, AA486226, AC004883, AC005529, AC005015, AC005527, AC002470, AC002375, AC004895, AC005971, AC004598, AL031286, AC007537, AC000025, U82671, AC007216, AF001549, AL009181, AL035458, AC005081, AC002316, AC004974, Z69917, AP000298, AC005690, AC005277, AL078587, AL109627, AC005538, AC004531, AF039907, AL031668, AC000134, AP000701, AL049757, ZS2182, AC005274, AC005011, AL049869, AC006017, AP000354, AC003684, AL008718, AC009516, U78027, AP000044, AP000112, AL021368, AL035413, AL031311, AL035422, AL031295, AC005377, AL031428, AC009731, AC004858, and AC007308
HEOQI11	2195	965973	1 - 587	15 - 601	AA533768, AI820985, AA620562, AI720732, AW404354, AA088727, AW082470, AA984114, AI590906, AW089604, AC006036, AC005548, AC005972, AL031662, AC004185, AP000509, AC004024, AF017104, AF141309, AP000563, AL049845, AP000210, AP000132, AC004522, AF129756, AC008009, AC006211, AC000062, M64231, AP000348, AC006504, AL050343, AC002477, AC004087, Z74739, AL023494, AC007684, AC003043, Y14768, AC004874, AP000505, D84394, AF165926, AC007102, AC008063, AC007639, AC004491, AC004887, AF196972, AC004253, AC005484, AC004787, AC016831, AP000503, AL133312, AF134726, AL035667, and AL121653
HEOQJ11	2196	879559	1 - 552	15 - 566	AC002536, and AB029488
HEOQK70	2197	934370	1 - 601	15 - 615	AI383451, AL119484, AW392670, AL119439, AL134530, AL134519, AW372827, AL119391, AW363220, AL119319, U46347, AW384304, AL119457, Z99396, AL119324, AL119522, AL119363, AL119355, AL119497, AL134528, U46351, AL119341, U46350, AL119396,

HEOQK72	2198	847285	1 - 147	15 - 161	<p>AL119483, AL119443, U46349, AL119444, AL134525, AL134524, AL134527, AL134531, AL134536, AL134538, U46341, AL037205, AL134518, AL119496, AL119335, AL119401, AL119418, AL042544, AL042614, U46346, AL142137, AL142132, AL119399, U46345, AL043019, AL031666, AR066494, AR060234, A81671, AR069079, A8026436, AR054110, and AR043113.</p> <p>AL045891, AL135012, AL134524, AL043089, AL045327, AL043321, AL042488, AL042655, AL046356, AL432644, AL047163, AL431307, AL047611, AL042898, AL042515, AL045328, AL041862, AL042508, AL431316, AL432666, AL042853, AL042729, AL042931, AL040207, AL042787, AL043091, AL623302, AL043239, AL431238, AL047675, AL042533, AL866786, U46344, AL690946, AW151136, AL539771, AL537677, AL494201, AL500659, AL866465, AL15232, AL801325, AL500523, AL538850, AL887775, AL582932, AL923989, AL284517, AL872423, AL590043, AL648567, AL500706, AL445237, AL491776, AW151138, AL521560, AL89189, AL500662, AL582912, AL284509, AW172723, AL539800, AL440263, AL889168, AL538885, AL866573, AL633493, AL434256, AL866469, AL805769, AL434242, AL888661, AL284513, AL500714, AL888118, AL285439, AL436429, AL859991, AL889147, AL355779, AL623736, AL371228, AL581033, AL440252, AL491710, AL610557, AL860003, AL242736, AL828574, AL887499, AL539781, AL539707, AL702065, AL885949, AL042420, AW089557, AL559957, AL521571, AL042802, AL469775, AL866581, AL815150, AL567953, AL446495, AL433157, AL047092, AL890907, AL561170, AL927233, AL432656, AL043166, AW151979, AL042745, AL285419, AL554821, AL042741, AL432653, AL431323, AL431321, AL431315, AL371251, AL039390, AL866510, AW081103, AL286991, AL866461, AL923046, AL690948, AL045620, AL047037, AL042523, AL521596, AL440238, AL046681, AL499581, AL539863, AL079977, AL366900, AL866820, AW197139, AL923061, AL275175, AL045500, AL042551, AL582926, AW058275, AL499463, AL610362, AL119748, AL434222, AL440239, AL042744, AL274759, AL537273, AL436456, AL371265, AL963846, AL567940, AL610357, AL817244, AL612913, AL285826, AL863014, AL355765, AL521594, AL499512, AL433976, AL042365, AL889133, AL538881, AL048403, AL288281, AL039276, AL282268, AW087954, AL355017, AL434255, AL047422, AL043278, AL434223, AL285432, AL697243, AL671642, AL610429, AL628850, AL433968, AL476086, AL537187, AL433155, AL042944, AL045163, AL539632, AL889148, AW118237, AL439995, AL539847, AL521465, AL828583, AL042538, AL872300, AL554827, AL863357, AW172745, AL354998, AL863197, AL567944, AL042865, AL567935, AL805762, AL610426, AL043295, AL867068, AW080700, AL046990, AL355008, AL431246, AL271234, AL042572, AL610402, AL567971, AL042377, AL042557, AL538878, AL588665, AL432654, AL366910, AL049859, AL432650, AL866457, AL499555, AL042842, AL567954, AL537191, AL866491, AL654276, AL567993, AL499915, AL499508, AL817373, AL872315, AL048390, AL273179, AL284515, AL031667, AL133053, AL122101, AL133049, AL133074, AL133076, Y10655, AL137267, AL122049, A85203, AR034821, Y17793, AF113694, AL049423.</p>
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HEOQNM83	2199	850964	1 - 588	15 - 602	AL133655, U10290, E13998, AL050280, AL049464, M30514, L31396, U68387, L31397, AL133084, AL133070, AL110159, S61953, AL133082, AL050146, AL122093, AL133072, AL122110, AL133080, AL133081, AL133077, AF081195, E07361, AF002985, U58996, AL133607, AL133644, AL133015, AL133608, AF161699, AR055519, Y07915, I80064, AL049300, and AR066494
HEOQNM83	2199	850964	1 - 588	15 - 602	AA341080, AW249300, AW392934, AA773513, AA176554, W93722, AI597867, AC006252, Y17169, and AL136773
HEOQNM83	2200	934202	1 - 759	15 - 773	AA774831
HEOQNM83	2201	864110	1 - 211	15 - 225	
HEOQNM83	2202	850957	1 - 454	15 - 468	AA680243, AI732120, AA453558, AW406162, AA938105, AA679936, T40452, AA601908, AA806796, AA205915, AA774222, AL121235, AA347241, AL046457, D82290, AA406508, D82542, AA836811, AL048125, AL110760, AI924251, AA524821, AA309841, AL079869, AA533303, R70821, AI799545, N23649, T74382, AI093030, AI133297, AA508359, AA483223, AI038990, AW075511, H71429, AA722372, AI816537, AA747777, AW245747, AA846952, T07249, AL036037, AW438555, AI284640, AA587604, AA605272, AW248847, AA502104, AI754955, AA580808, AI270117, AW023990, AA584167, N27329, AA702729, AA632868, AA496260, AA652057, AA324849, AA837655, AI274692, AA613232, AW303196, AW274349, AL038705, AA224525, AA214342, AW301350, AA992351, AI583283, AI334443, AW419262, AI370074, AA503015, AL041706, AI431303, AW193265, AL046205, AL041690, AI350211, AW072923, AA584581, AA192740, AW302013, AI631119, AI178953, AA810269, AI744826, AA634889, AA613227, AA632612, AA720702, AW128900, AW128884, AW088224, AL046409, AI370094, AI364020, C06151, AA613203, AI364026, AA658362, AA834713, AI281881, AA614070, AA828712, AA568341, AW301302, AI572924, AA568862, AI819574, AA847499, R95139, AA618412, AL044940, AI499938, AA493621, AA568862, AI819574, AA847499, AI473475, AA478355, AW438643, AW276435, AI432270, AI919265, AA834755, AA490183, AW022406, AA513136, AI537506, AI053672, AW274346, AW245325, AA493136, AA847952, AA515440, AW270382, AA649604, AA804962, AW410400, AA367986, AA483771, AA856954, AA366312, AL119691, AW021207, T41247, AP001038, U07562, AC002301, AC004690, Z98036, AF109907, AF196779, AL023494, AC005324, AL049776, AC009516, AC007686, AL035587, AL031846, AC004858, AC005406, AF088219, AC007298, AL022476, AC004854, AC007243, D87675, AC006359, AP000352, AL030321, AL034420, AC005231, AC008072, AC005274, AL096769, AP000088, AC004675, AP000240, Z86090, AC004517, AL035681, Z98884, AP000553, AL008718, AC002365, AC003085, AC005725, AL117258, AC000358, AC006285, AC007136, AL022329, U96629, AC007051, AC000353, AC006965, AC004671, AC005763, AC006486, Z92845, AC008372, AL020995, AC007955, AC002418, AC007688, AC004848, AC004386, AL031584, AC007283, AL049829, AL049832, AC004019, AC003035, AC002119, AC007041, AC005907, AL122020, AL034548, AC006275, AL121603, AC000052, AC009069,

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HEOJP44	2203	942596	1 - 1810	15 - 1824	AL042026, AL040542, AL042640, AL042540, AL046135, AL041808, AL044178, AL044364, AL043613, AL044413, AL043840, AL042334, AL043585, AL044583, AL044354, AL041936, AL039459, AL039576, AL040947, AL046244, AL043201, AL043604, AL039472, AL046383, AL043218, AL039689, AL044015, AL044350, AL039550, AL043425, AL042346, AL043424, D11960, AL045991, AL079876, AW450335, AL044377, AL042700, AL043468, AW297822, AL043795, AL546832, AL043128, AL044029, AL042245, AL044771, AL042712, AL036650, AL043867, AL049007, AL036630, N84802, T23658, AL039924, AL046097, AL040414, AL044412, AL040571, AL046994, AR035193, A13393, A49045, A58522, A58523, A58524, A58525, A64973, A82653, A83151, A83642, A83643, A84772, A84773, A84774, A84775, A84776, A86792, A93963, A93964, A95052, AR017907, AR027100, AR067731, AR067732, E12615, E16636, I28266, I44516, A17115, A18079, A27396, A98767, AR028564, I63120, A02710, A02712, A07700, A13392, A22413, A25909, A60955, A68104, A68112, A76773, A91750, A93016, AR009151, AR009152, AR037157, AR054109, E14304, E16678, I19516, I21869, AR068550, AR068551, A02228, A13388, A18050, A18053, A23334, A23633, A23998, A24782, A24783, A38214, A44171, A48774, A48775, A49700, A58521, A58998, A60111,

